From owner-qrp-l@Lehigh.EDU Sat Jan 11 18:02:26 1997
From: PaulKB8N@aol.com
Subject: [8548] 275W EFJ Matchbox FS
Message-ID: <970111140149_1242690149@emout12.mail.aol.com>

Gang,

I have a beautiful EF Johnson 275W Matchbox for sale. It includes the built-in SWR meter and the directional coupler. No major scratches or gouges, a few nicks. This is one of the nicest I've ever seen and will sell for $115 plus shipping.

Other items FS:

TenTec VFO rebuild kit, $10 plus shipping
TenTec Electret Microphone, Model 705, as new, $35.00 plus shipping
TenTec 961 Power Supply, near mint, $140 plus shipping

Thanks for the BW!

Paul, KB8N

From owner-qrp-l@Lehigh.EDU Sat Jan 11 18:02:26 1997
From: Dave Matthews <dmatt@roch875.mc.xerox.com>
Subject: [8495] A few questions
Message-ID: <9701110102.AA22116@chip>

A few questions from a newcomer...

Does anybody make a 15 meter kit? I have found 20, 40, and 80 but nothing for 15.

I have a chance to pick up a TS820 for a real reasonable price. How low of power can you run on one of these? I live fairly close to the neighbors and really don't want to listen to whining about being in their phones so I am going to run low power.

What is a reasonable price for a used Scout? Are these readily available on the used market?

Dave
KB2YWT

From owner-qrp-l@Lehigh.EDU Sat Jan 11 18:02:26 1997
From: Scott Rosenfeld NF3I <ham@w3eax.umd.edu>
Subject: [8543] AT-11 Group buy update
Message-ID: <Pine.3.89.9701111216.A10860-0100000@w3eax.umd.edu>

The list continues to grow - this is madness!!!

I told the people at LDG just how big the list was and they were
literally stunned (and happy, too!).

Currently:

23 AT-11s (17 enclosures)
16 QRPs (9 enclosures)

AT THIS POINT, getting 25 WILL happen - if we somehow get stuck at 23, I'll
buy the extras and distribute them later. I am sure this won't happen,
though.

PRICING:

AT-11 $127.50 (DROPPED FROM $135 as of...NOW!)
 Enclosure $ 30.00
QRP $ 85.00 (still a bargain)
 Enclosure $ 25.00

Again, if you wish to order, I need:

Name
UPSable address
Phone number(s)

I'll e-mail you back a confirmation, and determine the total cost including
the shipping/packaging costs. I ask for a check, you send, I pay the
bill, I order, I repack, I re-ship, you're happy, you breathe solder
fumes for a day or two, and you're happier still, which validates my
undertaking of something this big.

* Scott Rosenfeld NF3I Burtonsville, MD FM19mc QRV 80-10/6/2/440 *
*** 6m 75 grids worked on 8 watts *** HF 138 cfmd * QRP-L #147 ***
** QRP ARCI #9054 ** DXCC/WAS/WAC *** 100% dipole powered HF/6m **
* 301-549-1022 h / 301-982-1015 w *** 145.490- 147.225+ PL 156.7 *

From owner-qrp-l@Lehigh.EDU Sat Jan 11 18:02:26 1997

From: Scott Bauer <ke3nv@erols.com>
Subject: [8501] audio amplifier kit
Message-ID: <199701110236.VAA06545@mx06.erols.com>

Good evening,

I wonder if anyone knows of a kit company that makes a high quality audio amplifier kit specifically for CW use. I am looking for one that supplies anywhere between 2-5 watts to a 4 or 8 ohm speaker. I found a schematic in the Solid State Design book, but prefer using circuit boards to ruffing it. Thank you for any tips.

72, Scott
72&73 de Scott Bauer W3CV, formerly KE3NV, QRP Nut,SWL,Truck Pilot
Odenton, MD grid FM19 I use Green MTN 15 & 17, HW-8, G-QRP GQ-40
S&S Eng ARK-20, ARK-30, ARK-40, TAC1-80, all sensational rigs.

From owner-qrp-l@Lehigh.EDU Sat Jan 11 18:02:26 1997
From: NilsBull@aol.com
Subject: [8528] Badgers! I told you they were goin' crazy! Now see what's happened!
Message-ID: <970111104038_1958092954@emout16.mail.aol.com>

Mom's family had a cast of characters as good as any Ibsen play. There was one aunt who told Mom, after listening to Mom's telling about some family problem, "Well, we all have our problems." You had to be there.

Well, here's a list for you, a list drawn from the files here at the home, a list of events that started on New Year's day and which has yet to brought, as the shrink-o-types say, "to closure."

First off, for the second time, Cindy's fancy-schmancy Compaq multi-media Pentium powerhouse from hell computer croaked. I turned it on and it had lost its hard drive. All 1.5-and-some gigabytes. Zot! Dead as an atheist at a Baptist convention. You could smell the ozone. So she called tech support and told her troubles to the bored-to-hell person on the other end. The tech person then went on the usual long-distance/Yuri-Geller-style trouble-shooting exercise that my oldest boy says is part of what they pay him for. We read serial numbers and gave screen messages and got the "Sounds like the mother board. We'll have to schedule a replacement." A week and some has gone by and still not a word from Compaq about the fixing of the machine. All $2.5k and some of it.

Then.... Then Frank Herman, with whom I used to work at the Drake factory,

hands me a copy of the 1996 ARRL Handbook software and says "Here, try it out. It looks like it might be interesting." That's Franks favorite word. Interesting. It shows up all the time. You know what's interesting about that is... Interestingly enough.... I think it's interesting that..... That's interesting because...

Well, it's now interesting 'cause I have promised to carve Franks heart from his still warm flesh at the top of the pyramid with an obsidian spoon. I loaded Franks interesting software onto the sole hi-end computer in the house (a 386DX with a cobbled memory patch, 2 weird harddrives, a semi-functional audio card and a video accelorator) and suddenly had a DOS shell screen that looked like it'd been attacked by chickens. And the machine was stalled dead as a block. Very interesting, ne?

It's taken me all this week to get it working again. Eventually, in one of my fits of frustration, when I normally would have been unloading black powder and lead into the damn thing nestled in the freshly fallen snow, I gave up and scrammed the hard drive. Format c:\, complete with all the little "are you sure you wanna do that?" questions from what was left of the machine. Very interesting. And interesting as it all may be to Frank -- who is still dead meat -- I got Windows running last night. That and WP6-whatever, CorelDraw, WP51 (the DOS version.... like "the Director's cut" or something) and a couple other doodads. This afternoon at about 5 pm, I finally got AOL to work and spend the remaining 16 minutes on-line downloading the past four days worth of mail.

And Cindy just called to say that she's gonna need the machine this weekend to take care of some take-home work. Ah, the joys of the bourgeousie, ne-c'est-pas? Buncha damn Trotskyites. And on the desk now covered with disks, my oldest son's note to me: (HIS WORK PHONE NUMBER IN VERY BIG LETTERS, UNDERSCORED TWICE SO I CAN SEE 'EM BETTER) and two little boxes, one of which says "NO! No Format C:\; No Deltree; No Fdisk" and the other of which says "YES! Yes Scandisk; Yes Defrag."

So for those who wrote -- and I have a list of complex (and probably very interesting) forwards from faculty members sparring with each other over the AAUP, the Provost's letter to faculty about the AAUP and other nifty things that put the lie to any idea of "academic discourse" or "free exchange of ideas" or even NLRB rules on union organization activities. That and the FOX reports and antenna tussles and a lot of other stuff that I must read off-line now so I can respond again and again with more meaningless gibbering.

Just so you-all'd know I ain't quite dead yit. Yit.

73
Nils
WB8IJN +c

now... where's my tape of the Narrow's Bridge collapse?

From owner-qrp-l@Lehigh.EDU Sat Jan 11 18:02:26 1997
From: bump@redrose.net
Subject: [8520] Cascade Goof-up + Desoldering ICs?
Message-ID: <199701111319.IAA39209@nss2.CC.Lehigh.EDU>

Hi Gang,

Well, I found my first goof-up on my Cascade project. Installed U6 backwards. Yup, the
move of a duffer. Don't think I did any damage though... when I put power to the radio the
total current drain was 73ma and all the voltages checked except that the 7v I was supposed to have on 'pin8' of U6 measured 3v. Attempted to trace U6 pin 8 back through
R48 to the +8vTX and that's how I found my glitch. Pin 8 on the top of the board wasn't
where pin 8 was supposed to be on the bottom!

Although I've built a little, I'm a first-timer with the 'double-sided plated-through' nonsense.
Anyone have any great ideas for getting the NE602 off the board? (I do have another so I'm
not concerned about the 'integrity' of the one that's in there).

73 and thanks,

Harry, KM3D

OUTLAW WIRELESS LEAGUE
QRPARCI #3875
NORCAL #1295
QRP-L #637

From owner-qrp-l@Lehigh.EDU Sat Jan 11 18:02:26 1997
From: "Wes Tyler" <tylerw@ozemail.com.au>
Subject: [8496] Crystal Filters for CW.
Message-ID: <199701110118.MAA09242@oznet02.ozemail.com.au>

Help please. Source of 9MHz xtal filters. 500ohm input/output impedence.
KVG type XF-9M or XF-9NB. CW type only not SSB.
Thank you and 72/73,
wes vk2wes. tylerw@ozemail.com.au

From owner-qrp-l@Lehigh.EDU Sat Jan 11 18:02:26 1997
From: Dan Keen <70731.722@CompuServe.COM>
Subject: [8512] Email providers
Message-ID: <970111054131_70731.722_EHM42-1@CompuServe.COM>

Howdy all on QRP-L, this message concerns email providers, one of which is necessary for anyone wishing to use the QRP-L list. My purpose here is to provide a warning about signing up with the wrong company. I signed up with AOL, and it sure looks like it is going to cost me about three hundred fifty-eight dollars.

A little over month ago I received one of those millions of 50-hour free America On Line (AOL) trial CD software disks. During the 25 days that I used this trial version of AOL, access to the services was almost perfect, in fact I only got less then 5 busy signals total during dozens of log-on calls over those 25 days. Being satisfied, I signed up for the 2 year in advance rate of just under 15 bucks per month, a total of 358 dollars which I paid up front by a single mouse click. That was about 2 weeks ago and it was in my opinion now a big mistake.

The day after accepting that offer, I started getting busy signals every evening which I try to get online. Every single evening.

Most evenings I cannot get any access to AOL, even with 10 to 30 tries of calling on the two local AOL access numbers. The best I've done in the last 2 weeks after signing up was to get connected after 8 dials. Every other evening I could not get on at all after trying 10 to 30 dials and then giving up. Both lines were always busy.

The AOL 800 number for tech help, and also the one for billing plays a recorded message apologizing for the fact that capacity of the access system is now very poor. So AOL admits that there is a very serious problem accessing their service now.

Called their billing information service tonight to politely ask for refund of the money because I cannot get online hardly at all. AOL representative informed me that I cannot receive a refund, they said that once I had paid them, its a non refundable situation, and that they absolutely will NOT refund the money despite my report of not being able to use their service hardly at all. They said that it is too bad that I'm out the money but that AOL will not give to me any refund because AOL does not in any way guarantee that AOL will in fact be able to provide reasonable service for the charges which they have collected in advance from their customers.

Just posted this so that folks on the list can consider some things before

signing up for an EMAIL service for to read the QRP-L list. I would say that a single month in advance payment is much better policy then longer periods, that way the risk would be relatively small.

By the way Compuserve continues to answer without being busy. I am on Csi every night and haven't gotten a single busy signal in weeks. I only added AOL for their heavily advertised low cost Internet access, should have stayed with the more expensive Compuserve (Csi).

Dan Keen K6DZ

From owner-qrp-l@Lehigh.EDU Sat Jan 11 18:02:26 1997
From: David Maliniak <dmalinak@CLASS.ORG>
Subject: [8536] Encounter of the Altoids Kind
Message-ID: <Pine.SUN.3.91.970111090947.29688A-100000@class.class.org>

So I'm on my way to the recycling center this morning here in suburban Glen Rock, NJ, when I notice that the station wagon just ahead of me is that mysterious Chevy I've seen around town a few times. Its New Jersey license plate reads "ALTOIDS." I'd wondered about that...

Sure enough, the Chevy leads me straight to the recycling center. We pull in side by side and, after a few minutes, I casually introduced myself to the mid-fortyish, graying fellow who was unloading his old newspapers into bins. I introduced myself as a neighbor and asked what his connection with the "Curiously Strong Peppermints" might be. He replied, with a British accent, that his name was Alex and that he was the National Sales Manager. I asked whether he'd noticed a blip in sales last year and he said yes, sales had been up somewhat.

When I told him why, he just about did a jig. He said his dad's best friend back home in England had been an enthusiastic ham. I wished that I had had my 40-9er with me to show him. But Alex took down my phone number and he and I will be getting together sometime soon. He's dying to see what we QRPers are doing with his tins!

And, who knows....maybe there's a box or two in it for me.

72 David N2SMH/QRP
Glen Rock, NJ

From owner-qrp-l@Lehigh.EDU Sat Jan 11 18:02:26 1997

From: Mark Gilger <mgilger@concentric.net>
Subject: [8570] EQUIPMENT ENCLOSURE
Message-ID: <3.0.32.19970111162224.006a4a98@pop3.concentric.net>

Can anyone suggest a good place to get equipment enclosures besides Ten-Tec?
Mark - WB0IQK/8- #870

From owner-qrp-l@Lehigh.EDU Sat Jan 11 18:02:26 1997
From: "Mark S. Adams" <msadams@acsu.buffalo.edu>
Subject: [8522] Fireside Sprint Times?
Message-ID: <Pine.GSO.3.95.970111093403.24779B-100000@orichalc.acsu.buffalo.edu>

Hi Gang,

What is the best time to operate in the Sprint on Sunday? Being on the
east coast, and wanting to work mostly on 20M I suppose that the best time
is 3pm est-7pm est. The west coasters will be on and any east coasters
that started at noon est will be on.

Any comments? What is the general philosophy on the timing in this test?

WX- it is wicked outside right now (1440 UTC SAT). We have 19 inches and
it is still coming down hard, the winds are still at 20-30 mph.

72, Mark N2VPK
Member of the Buffalo QRP Connection

From owner-qrp-l@Lehigh.EDU Sat Jan 11 18:02:26 1997
From: Mike Hatala <mhatala@ix.netcom.com>
Subject: [8499] First Fox
Message-ID: <2.2.32.19970111015442.0069e5ec@popd.netcruiser>

Caught my very first FOX last night (Bob WO3B) and I'm hooked. Last week's
fox (Paul W8KC) was slippery... never did complete the QSO, although I did
hear my call before the band conditions deteriorated. I Guess that one
doesn't count. I've been following the list for a few weeks now and I've
learned so very much from all of your posts and hope to become a serious
contender in the QRP arena. I've ordered Rich's 3 volume low power
communications library and eagerly awaiting its arrival.

I'm running a NorCal 40 purchased from (Fred W5QJM) w/ a dipole at 20'and an

MFJ keyer/paddle. My solder melting days are over due to a cryogenics related injury in the Air Force some 13 years ago therefore home brewing is no longer an option for me. I'm just happy to be here and to have an opportunity to learn and improve my CW skills. Hope to work you all in the new year.

Mike

72/73 de Mike KE4WQH
Mike Hatala
mhatala@ix.netcom.com
QRP-L # 887

From owner-qrp-l@Lehigh.EDU Sat Jan 11 18:02:26 1997
From: Mike Czuhajewski <wa8mcq@u1.abs.net>
Subject: [8577] For sale--T30-6 toroids
Message-ID: <Pine.BSI.3.93.970111180309.7996A-100000@u1.abs.net>

For sale--I have some T30-6 powdered iron cores available, at 15 (fifteen) for a dollar plus postage--that's either a 32 cent stamp or an SASE. I only have a couple hundred, and when they're gone they're gone, since it was a good buy at a hamfest. (That's a good buy, not an astounding buy; unfortunately, he knew exactly what they were and what they're worth. I was hoping to get one of those "2 cents on the dollar" deals that you get sometimes, but he wasn't about to let me get away with it! BTW, I do not pretend that I'm passing these on at my cost :-) I gave some away on the day of the hamfest to friends, and want to keep a few dozen for myself. At a buck for 15 I'm getting my money back and getting some free cores out of the deal, and you still get a good deal on them!)

The fine print: due to the limited quantity available, please e-mail me to reserve your 15. If you just send me a dollar and a stamp or SASE instead of e-mailing, and they're gone, all I can do is use your stamp or SASE to send your dollar back.

This offer is limited to the US and Canada. For you folks up there, any customs concerns are your problem :-) They'll be sent in a regular letter envelope, but the post office will probably notice that there's something in them and make me put a customs form on them.

Before you order, remember that these are T30-6--that's

thirty, not 37, so they're a bit smaller than you're probably used to. (They're a rather awkward size for me too, since I like to use T25-size for my really tiny rigs!) These are the yellow coded cores. The handwritten info on the tag on the bag said T30-6 but you know what I've been preaching for years and years--never trust hamfest toroids unless you can positively identify them and never put absolute trust in what the seller says they are. However, the tag had the imprint of a parts distributor so it seemed reasonably safe to trust it. Also, they had the proper LOOK of a powdered iron core made by Micrometals (which is what Amidon sells) so I took the chance. When I got home I wound some coils and did some tests on my Boonton 260A Q meter and sure enough they checked out as T30-6's.

Don't forget--15 for a buck plus 32 cent stamp or SASE, and order by e-mail before you send me anything.

73 and Queue Our Pea DE WA8MCQ wa8mcq@abs.net

From owner-qrp-l@Lehigh.EDU Sat Jan 11 18:02:26 1997
From: NZ8J <timcook@erinet.com>
Subject: [8504] FS: HW-9
Message-ID: <32D7064E.5CEA@erinet.com>

Super nice condition UNMODIFIED HW-9 with WARC bands. All original with manuals and schematics and power cord. Will ship in 48 for $285. Email for more info.

Tim
NZ8J

From owner-qrp-l@Lehigh.EDU Sat Jan 11 18:02:26 1997
From: GARY MCCAUGHEY <MAIL4GARY@worldnet.att.net>
Subject: [8490] FS: Ten-Tec 223 noise blanker
Message-ID: <19970111001016.AAA19014@LOCALNAME>

I have a Ten-Tec model 223 noise blanker. It comes with the instruction sheet and installation jumper cables. It is not new...and have not tested it. I needed the 223-A for my Argosy IID and got this one by mistake. This one will not workin my rig. I paid $35.00 for it and will sell it for same

(includes shipping) or best offer. I have no use for it.

Reply direct to MAIL4GARY@worldnet.att.net

73 from Gary - W2UX
CW is the REAL THING!
QRP-L #593
QRP ARCI #8911
(EX: WA2UAX)
Lexington, SC

From owner-qrp-l@Lehigh.EDU Sat Jan 11 18:02:26 1997
From: "Bob, W4ED" <rbe@atlanta.com>
Subject: [8527] FSFD - GEORGIA
Message-ID: <32D7EBB6.5BEB@atlanta.com>

This is a multi-part message in MIME format.

--------------3BC789214E0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

It was my pleasure, really. It was a laid back, easy go'n
evening with several nice QRP chats. More than half of QSOs
went beyond the normal exchange - my idea of a good time in
this hobby. Sorry that propogation didn't provide West Coast
communication, my best westward DX was MT, N7GS on 30 mtrs.

My rig was a FT-840, battery operated, full wave 80 mtr
horizontal loop and a quarte wave 80 mtr wire vertical on
top of a chain link fence ground radial. A short sory about
the battery - I trickle charge it with a 3 amp 13.8 vdc
power supply and a series power diode. This setup has worked
fine for 2 1/2 years. The power supply went AOL a day or two
ago and I found out the hard way when the FT-840 started acting
up. Had to jury rig an old Heathkit IP-18 0.5 amp bench
supply to fill in. The FT-840 takes more than 500 ma.
The little IP-18 warmed up but with near record cold temps,
here in Atlanta (inside & outside) it lasted the duration.

This was my first major event using the KC-1 keyer. It was
mounted within my TFR NN1G rig and I key the FT-840 with
the straight key output from the NN1G. Thanks to the
ARS leaders for sponsoring the TFR Challenge Contest.
I was the lucky one to get the KC-1 (a random drawing).

FSFD log attached.

GL FSFD from Georgia,
Bob 72/73



W4ED x_AE4CA nr Atlanta @EM73wt
...."QRP", more from less....
:EMPS QSOs=78 STATES=28/5 DX=?? ~~~~~~~~~~~~~~~~

--------------3BC789214E0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Disposition: inline; filename="FSFD9701.TXT"

Call	Day	Time	RCVD. RST	ST.	NAME	SENT RST	Mhz	PWR	QSO #
KA5T	10	2203	449	TX	LARRY	339	10.1	5	1
AC5AM	10	2234	559	LA	BOB	569	10.1	5	2
N7GS	10	2244	559	MT	MAL	559	10.1	5	3
N0AC	10	2249	559	IA	BILL	589	10.1	QRO	4
K4WZ	10	2300	339	GA	RON	339	10.1	5	5
K5ID	10	2349	229	AR	KEN	339	10.1	5	6
K1CL	11	2	339	MA	CHUCK	339	3.56	5	7
AC5AM	11	7	579	LA	BOB	579	3.56	5	8
W2DP	11	15	569	NJ	BILL	559	3.56	5	9
N4BP	11	18	579	FL	BOB	569	3.56	5	10
W8LRM	11	30	449	MI	AL	449	3.56	5	11
K4WZ	11	36	579	GA	RON	559	3.56	5	12
KD0CA	11	43	549	IA	JERRY	339	3.56	5	13
KA5T	11	51	339	TX	LARRY	119	3.56	5	14
K3QIO	11	55	549	DEL	JIM	559	3.56	5	15
N3REY	11	103	339	MD	JOHN	439	3.56	5	16
K4NK	11	108	339	SC	LES	339	3.56	4	17
WA1QVM	11	124	559	MA	JOEL	449	3.56	5	18
N0UR	11	141	569	MN	JIM	559	3.56	5	19
KB0ZDF	11	150	249	IA	DEAN	569	3.56	2	20
K5TF	11	220	569	GA	DICK	569	3.56	1	21
N4FNG	11	240	569	FL	AL	569	3.56	5	22
W1ME	11	259	339	ME	GEORGE	559	3.56	2	23

QSO PNTS 99 HRS 0

SORTED by MHZ then STATE then CALL

NZ8J	20	1111	559	OH	4099	559	1.8	5	121	1
K4KJP	20	1150	579	AL	3759	579	3.5	5	129	1
WA4KEJ	20	130	579	AL	4784	579	3.5	5	115	
WA4KEJ	20	1138	599	AL	4784	599	3.5	DUP	126	
N9ZZ	20	1141	559	AR	4744	559	3.5	5	128	1
K5BCP/1	19	2356	559	CT	5123	339	3.5	5	99	1
KN4QV	20	32	599	GA	7789	599	3.5	5	105	1
N4OLN	20	1130	559	GA	500MW	559	3.5	2	124	
W4FOA	19	2332	559	GA	374	559	3.5	5	94	
W9JVC	20	1126	569	IL	4W	569	3.5	2	123	1
K9VCM	19	2328	579	IN	76	579	3.5	5	93	1
WD9CTB	19	2348	559	IN	4786	559	3.5	5	97	
KG0UA	20	118	559	KS	5W	559	3.5	2	114	1
KR4KL	20	1200	559	KY	9020	559	3.5	5	131	1
AC5AM	20	114	559	LA	9105	559	3.5	5	112	1
N1QY	20	145	559	MA	5W	559	3.5	2	118	1
W6TOY/3	20	2352	559	MD	7541	559	3.5	5	203	1
W8VFM	20	1207	449	MI	4053	449	3.5	5	132	1
W9CBE	19	2359	559	MI	8958	449	3.5	5	100	
WA0RPI	20	1135	559	MN	6846	339	3.5	5	125	1
K0LWV	20	1156	569	MO	8357	449	3.5	5	130	1
W0GWT	20	115	559	MO	777	559	3.5	5	113	
AA1BK	20	26	559	NC	7959	339	3.5	5	103	1
AE4EC	20	1215	559	NC	4227	559	3.5	5	133	
AE4IC	20	9	559	NC	8922	559	3.5	5	101	
W4CBG	20	2350	589	NC	4W	579	3.5	2	202	
WA1UPB	20	154	559	NC	5W	559	3.5	2	119	
N2CQ	19	2347	599	NJ	7975	599	3.5	5	96	1
WK2G	20	2332	559	NJ	5W	559	3.5	2	198	
K2LGO	20	21	559	NY	6397	559	3.5	5	102	1
NZ8J	20	40	559	OH	4099	559	3.5	5	107	1
WT8P	20	46	539	OH	5W	539	3.5	2	109	
K3WWP	20	42	559	PA	1880	559	3.5	5	108	1
W3TS	20	2343	559	PA	3315	449	3.5	5	200	
WA3SRE	20	33	559	PA	4528	559	3.5	5	106	

WA3YON	20	2339	559	PA	8850	559	3.5	5	199		
W1MK	20	134	579	QSS	5W	559	3.5	2	116	1	
KC4IIS	20	138	559	TN	7627	559	3.5	5	117	1	
K5ZTY	20	1123	559	TX	8817	559	3.5	5	122	1	
W5NN	20	207	559	TX	8580	559	3.5	5	120		
AE4EW	20	1139	559	VA	9251	559	3.5	5	127	1	
K3SS	20	30	559	VA	8489	229	3.5	5	104		
N4ROA	20	2346	579	VA	7401	579	3.5	5	201		
W4XD	19	2353	579	VA	5237	579	3.5	5	98		
WF8X	20	2330	559	WV	6571	559	3.5	5	197	1	
								188			24
AE4JM	19	2057	579	AL	9178	559	7	5	78	1	
K4KJP	19	2024	599	AL	3759	559	7	5	73		
KJ5TF	19	2054	579	AR	8134	559	7	5	77	1	
K0FX	20	53	449	CO	9202	559	7	5	110	1	
K0RI	19	1242	559	CO	5W	449	7	2	13		
KS6CP/1	20	2226	559	CT	5123	559	7	5	178	1	
N1RCG	19	1247	559	CT	8574	559	7	5	15		
WY1W	19	1229	569	CT	4896	559	7	5	7		
KE4YH	20	1310	559	FL	9236	599	7	5	143	1	
AE4JA	19	1352	599	GA	9269	599	7	5	38	1	
KQ0I	19	1311	549	IA	9225	559	7	5	26	1	
KJ9O	19	2038	559	IL	5963	559	7	5	75	1	
N9HH	20	1242	559	IL	1977	559	7	5	139		
N9DD	20	2305	559	IN	8081	449	7	5	190	1	
NT9W	20	2242	599	IN	85W	579	7	2	181		
WB9PXR	19	2029	559	IN	8931	559	7	5	74		
KC0GL	19	2005	339	KS	75	559	7	5	67	1	
KG0UA	20	2249	449	KS	5W	339	7	2	184		
W9FHA/M	19	1926	559	KY	8095	559	7	5	63	1	
AC5AM	19	1343	559	LA	9105	559	7	5	37	1	
N5RCY	20	1322	559	LA	7242	559	7	5	147		
AA1HV	20	1226	559	MA	5W	559	7	2	136	1	
N1RXT	19	1256	449	MA	4W	559	7	2	19		
K3CHP	20	1323	579	MD	4218	559	7	5	148	1	
K3TKS	19	1313	559	MD	4368	559	7	5	27		
KA3J	20	2247	599	MD	2W	599	7	2	183		
KC3MX	19	1310	579	MD	6441	559	7	5	25		
N3REY	20	2254	599	MD	9022	559	7	5	186		
W3EAX	20	2307	559	MD	3W	559	7	2	191		
W3ERU	20	1238	559	MD	8304	559	7	5	138		
WA3ERU	19	1301	559	MD	8304	559	7	5	22		
WA3GYW	19	1308	499	MD	3539	599	7	5	24		
WO3B	19	1320	599	MD	9148	559	7	5	31		
KC1DI	19	2001	549	ME	3843	549	7	5	66	1	
KB8TVZ	20	2317	559	MI	5W	559	7	2	195	1	
W9NIP	19	1255	559	MI	8354	559	7	5	18		

WA8LCZ	19	1323	449	MI	7451	449	7	5	33	
WB8APR	19	1330	579	MI	1W	449	7	2	35	
WB8NYV	19	2010	559	MI	1W	339	7	2	69	
WB8WCU	20	1304	559	MI	10W	559	7	2	142	
W0YHE	19	1244	449	MN	5605	449	7	5	14	1
WA0RPI	19	1253	579	MN	6846	559	7	5	17	
KQ4VH	19	2018	559	MO	4W	559	7	2	71	1
W0GWT	20	2300	559	MO	777	559	7	5	188	
AA4XX	19	1241	579	NC	8593	449	7	5	12	1
AE4EC	19	1315	599	NC	4227	599	7	5	28	
AE4IC	19	1923	559	NC	8922	559	7	5	62	
W2KJ	19	1318	559	NC	5919	559	7	5	30	
WA1UPB	19	2012	559	NC	5W	559	7	2	70	
WR4I	20	1252	559	NC	4281	449	7	5	141	
AA2NL	19	1233	559	NJ	3W	559	7	2	9	1
K2JT	19	1327	339	NJ	3088	339	7	5	34	
N2CQ	19	2006	559	NJ	7975	559	7	5	68	
N2MNN	19	1221	559	NJ	8351	339	7	5	4	
K2LGJ	20	1318	559	NY	6397	229	7	5	145	1
K2UD	20	2313	559	NY	5889	449	7	5	193	
KB2TEO	19	1224	559	NY	9248	559	7	5	5	
KB2TEO	20	2252	559	NY	9348	339	7	5	185	
N2YVF	19	1207	559	NY	8710	559	7	5	1	
WB2QDG	20	2320	559	NY	5W	559	7	2	196	
K8FF	20	1235	599	OH	9168	599	7	5	137	1
NZ8J	19	2023	559	OH	4099	559	7	5	72	
W8MVN	19	1921	599	OH	6572	599	7	5	61	
WA8GLF	20	2246	589	OH	1285	579	7	5	182	
WA8HQO	20	1324	599	OH	5257	599	7	5	149	
WB8RTJ	20	1326	559	OH	5W	599	7	2	150	
K5UP	19	1322	569	OK	4009	559	7	5	32	1
VE3VA	19	1258	559	ON	2W	559	7	2	20	1
AE2T	19	1235	559	PA	5W	559	7	2	10	1
K3WWP	19	1300	579	PA	1880	559	7	5	21	
KA3WMJ	20	2256	559	PA	8768	579	7	5	187	
N3IUT	19	1231	599	PA	7642	559	7	5	8	
NE3I	19	1219	579	PA	8428	559	7	5	3	
WB3GCK	20	2309	569	PA	8260	559	7	5	192	
W1MK	20	1222	579	QSS	5W	579	7	2	134	1
WA1OFT	19	1238	579	RI	7415	449	7	5	11	1
WD0T	19	1339	449	SD	8437	559	7	5	36	1
KC4IIS	19	1955	559	TN	7627	559	7	5	65	1
K5PSH	20	2234	579	TX	4407	559	7	5	180	1
K5ZTY	20	1224	559	TX	8817	559	7	5	135	
KB8N	19	1226	549	TX	1069?	559	7	5	6	
W5NN	20	1249	599	TX	8580	599	7	5	140	
WA1YIA	19	1317	559	TX	5W	579	7	2	29	
WB5FKC	20	57	559	TX	3571	559	7	5	111	

WB9LAU	20	2315	559	TX	3W	559	7	2	194	
AE4EW	19	1249	559	VA	9251	559	7	5	16	1
K4UO	20	1313	549	VA	10W	449	7	2	144	
N4EHL	20	2232	589	VA	5076	559	7	5	179	
N4ND	19	1304	569	VA	5W	559	7	2	23	
W4XD	19	2044	579	VA	5237	579	7	5	76	
WA4CHQ	19	1214	559	VA	8973	339	7	5	2	
WA4QDM	19	1919	599	VA	5W	599	7	2	60	
AA9RB	19	1930	539	WI	5W	339	7	2	64	1
WA9PWP	20	2303	569	WI	7291	449	7	5	189	
N8MUU	20	1320	559	WV	5457	559	7	5	146	1
								400		33
VE6AML	19	1846	599	AB	6140	559	14	5	53	1
VE6BIR	19	1849	559	AB	4059	559	14	5	54	
N7JXS	19	1832	559	AZ	6934	559	14	5	45	1
W5VBO	19	1829	559	AZ	3623	559	14	5	44	
VE7CA	19	1834	579	BC	3W	559	14	2	46	1
KO6KA	19	1827	569	CA	8756	559	14	5	43	1
N6GA	20	2043	569	CA	962	339	14	5	173	
N6MM	19	1855	559	CA	51	559	14	5	57	
W3FF	20	1941	549	CA	4W	559	14	2	166	
K0FRP	19	1859	579	CO	8601	579	14	5	58	1
K0FX	19	2200	449	CO	9202	339	14	5	88	
KF7MD	20	1956	569	CO	6817	569	14	5	169	
N0SXX	19	2209	599	CO	5W	599	14	2	90	
N0TFI	20	2222	559	CO	5W	559	14	2	177	
WO0Q	19	2207	559	CO	8092	559	14	5	89	
K5BCP/1	19	1809	579	CT	5123	559	14	5	41	1
KA1CZF	20	2046	559	CT	4350	559	14	5	174	
N1RCG	19	1840	579	CT	8564	559	14	5	50	
NA1OX	19	1843	559	CT	2823	559	14	5	51	
NN1G	19	2109	579	CT	5141	579	14	5	79	
KE4YH	20	1434	559	FL	9236	559	14	5	157	1
K1GDH	19	1838	599	MA	6899	599	14	5	48	1
K1GDH	19	2122	599	MA	6899	599	14	DUP	83	
N1AM	19	2116	599	MA	7631	559	14	5	80	
N1QY	20	1432	579	MA	5W	559	14	2	156	
WA1QVM	20	1443	579	MA	5W	559	14	2	161	
VE4AKI	20	1922	559	MB	8707	559	14	5	164	1
WA0RPI	20	1445	579	MN	1790	559	14	5	162	1
AB5YG	19	2131	559	MS	5W	559	14	2	85	1
W7ED	19	1836	559	MT	5W	559	14	2	47	1
V01DRB	20	1930	559	NFD	6599	559	14	5	165	1
AA1MI	19	2120	599	NH	9195	599	14	5	82	1
K1BV	20	1947	579	NH	10W	579	14	2	168	
KB1F	19	2118	559	NH	6290	559	14	5	81	
W1FMR	20	2047	559	NH	4963	559	14	5	175	

K5AM	19	2128	559	NM	8259	449	14	5	84	1	
W2WSS	19	1845	599	NY	5W	599	14	2	52	1	
AA7KF	19	1806	559	OR	7601	559	14	5	40	1	
W7LNG	19	1804	579	OR	5647	559	14	5	39		
HP1AC	20	1413	559	PAN	6305	449	14	DUP	154	1	
HP1AC	20	2123	559	PAN	6305	559	14	5	176		
KP3S	19	2138	559	PR	7651	559	14	DUP	87	1	
KP3S	20	1403	559	PR	7651	559	14	5	153		
WP4JXD	19	2136	559	PR	7741	559	14	5	86		
W1MK	20	1429	599	QSS	5W	599	14	2	155	1	
WA1YLN	20	1440	599	RI	3986	599	14	5	159	1	
WA1YLP	20	1441	559	RI	3W	559	14	2	160		
VE5VA	19	1852	559	SK	6032	559	14	5	56	1	
AB5WB	20	1944	559	TX	5W	559	14	2	167	1	
K5ZTY	20	1347	559	TX	8817	559	14	5	151		
NM5M	20	2035	599	TX	5W	339	14	2	172		
WA5DWX	20	1436	599	TX	5W	559	14	2	158		
W0MHS/7	19	2211	599	UT	2915	599	14	5	91	1	
N4BP/VP9	19	1825	559	VP9	3412	559	14	5	42	1	
N7MFB	19	1839	559	WA	6802	559	14	5	49	1	
AA5EA	19	1850	579	WTX	7273	559	14	5	55	1	
AE0Q/7	19	2318	569	WY	9277	559	14	5	92	1	
								225			28
YS1ZRB	20	2003	579	ES	8618	339	21	5	170	1	
KP3S	20	1355	559	PR	7651	559	21	5	152	1	
W5NN	20	2017	559	TX	8580	559	21	5	171	1	
WA1YIA	20	1911	559	TX	5W	559	21	2	163		
N4BP/VP9	19	1908	559	VP9	3412	559	21	5	59	1	
								22			4
								S/P/C	90		

---------- SUMMARY

QRP ARCII CONTES1996 FALL QSO PARTY MODE: CW

CALL: AE4CA ST: GA QRP NR: 8760 ENTRY: MULTIBAND (A-5)

Band	Pnts	S/P/C	HMBRW Bonus
160	5	1	1.8
80	188	24	3.5
40	400	33	7
20	225	28	14
15	22	4	21

```
               10                                  28
                6                                  50

            TOTAL   840     90

QSO PNTS       99
S/P/C          90
 5 WATT PWR     7
BONUS "X"       1
BONUS "+"       0
FINAL SCORE 62370

TOTAL TIME:  18               DUPLICATE SHEETS: N/A

RIG:  FT-840 turned down      OUTPUT:  5  watt

ANTENNA:  80 m loop,  40/20m /POWER: marine battery

KEY: Homebrew TFR single paddle.

KEYER: Homebrew, 3 CMOS ICs

NAME:  Bob Edwards            CALL: AE4CA

STREET:  5305 Pounds Drv South

CITY:  Stone Mtn.             STATEZIP: 30087

PHONE: (770) 498-1399

COMMENTS:  My best effort yet, lots of fun, great weather here and had a brilliant
            Silver Maple turning yellow /orange/red just outside my window.
            Swapped the "72" for a "KEEP WARM"  when I signed with  Glenn, AE0Q .
            May be my last time to use EXCEL & macros for logging  :-(

I ran an output power of just less than 5 watts, as measured by myTucker T-1000
Antenna tuner.
The T-1000 was calibrated via a borrowed  OHR WM-1.
Followed al the rules and spirit of the contest,  Bob Edwards, AE4CA

--------------3BC789214E0--
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From owner-qrp-l@Lehigh.EDU Sat Jan 11 18:02:26 1997
From: Jeff Grudin <grudin@pacific.vdbs.com>

Subject: [8533] FSFD?
Message-ID: <32D7BA72.57D0@vdbs.com>

Hey Jim,

What did that mean mean again? FSFD - Four States in Fifty Days?

I think those storms we've been having is blowing all those radio waves
to the south and east. All I've been hearing lately is static.

Oh well, it's another day. We'll try again.

CU out there

72 de Jeff AC6KW
grudin@vdbs.com

From owner-qrp-l@Lehigh.EDU Sat Jan 11 18:02:26 1997
From: jim hale <kj5tf@mctc.com>
Subject: [8530] Half square shortened 30%
Message-ID: <32D7D414.3FBF@mctc.com>

I'm a big fan of the half square antenna. But for 30 & 40M the verticals
are pretty long. For 30M the verticals need to be about 25' and
horizontal wire is about 49'.
So I used a BASIC program called REDUC3 and used that data for a 30M half
square shortened by 30%..
I had to wind #14 wire 9.5 turns over 2" PVC for each vertical. Then
measured 9.7' and 6.5' wires and attached to the coils. This cuts 9 feet
off the total length. The shorter wire is attached to the horizontal
wire which is left at 49'...
To get the SWR's to 1.5 I had to add an extra foot to the 9.7' bottom
wire. So the total reduction is 8' ! That really helps my yard which
sometimes looks like a spider web of wire antennas! At least this one
wont bump anyone in the head!
On the air the antenna works great, and I might reduce my 40M half square
next as one vertical almost touches the ground! A great plaything for our
cats!
So now I can take down my 30M hamstick and use it on my truck where it
belongs... I'm looking forward to getting my 38S, it should work great
with the 30M half square, cul de Jim KJ5TF AR QRP #2

From owner-qrp-l@Lehigh.EDU Sat Jan 11 18:02:26 1997

From: KF4OBL <Insight@cris.com>
Subject: [8531] Hello ! New to list.
Message-ID: <Pine.SUN.3.95.970111105613.4380B-100000@galileo.cris.com>

As the subject says I am new to this list and just wanted to introduce
myself. I recently got my ticket (23 Dec 96) and have so far made lots of
local contacts on repeaters etc. but am dieing to start making simplex
contacts. I have an HTX-202 and a 5/8 wave base antenna which I have setup
for mobile use.
If anyone would like to try and make a contact please let me know and we
can setup a sked. I am available :
 Monday - Friday 07:00 - 17:00 UTC
 Saturday - Sunday 24 Hours
Thanks !

73 de
Susan Driggers
KF4OBL
QTH : EM85as
Always in search of new DX. Am willing to try a 2m sked with anyone !

From owner-qrp-l@Lehigh.EDU Sat Jan 11 18:02:26 1997
From: "William R. Colbert" <v31xe@dzn.com>
Subject: [8492] Historic Callsign
Message-ID: <32D6FB2D.B@dzn.com>

Just read the post by Paul Christensen, W9AC. Interesting. But
what was most interesting was Paul's call. W9AC used to be
synonamous with HAM RADIO - was for many, many years the call
of Bill Halligan, Hallicrafters Radio Co. until he moved to
Florida several years ago. Nice to see the call back in use again.

ob QRP: Bob WO3B sure had a nice signal out here in Far West Texas
last nite. Thought I had missed him at 0330 until heard his
cq fox. Thanks Bob.
Ray....

--
72/73, Ray Colbert, W5XE, SOWP 1064M
(also af852@rgfn.epcc.edu)
El Paso, Texas

From owner-qrp-l@Lehigh.EDU Sat Jan 11 18:02:26 1997
From: ka7you@juno.com (rodney j johnson)
Subject: [8516] Juno message sorting and Help Files
Message-ID: <19970110.225212.3494.11.KA7YOU@juno.com>

The JUNO software has on of the most complete and easy to use HELP functions of any software I've ever used.
 For all of you who use JUNO for E-Mail, I just ran across a documented method of sorting that might be a new feature (at least I haven't run across it before)in the later revisions of the software. Click on <HELP> and then Search for the SORT file.
 <"You can sort your messages by clicking on the words From, Subject, Date, or <Status at the top of the columns in the Header Box on the Read screen. The <messages then appear in ascending order by the column you select.
<For example, to sort your messages alphabetically by sender, click on the From <heading".

It is great for getting the postings back into chronological order or finding one by senders name, or subject, but it only sorts on the first word of the entry, not any word in the subject, or name etc.

I just thought I'd pass it along for those who haven't spent much time browsing the HELP files.

7 3,
 Rod Johnson KA7YOU NWQRP#120 ARCI-QRP #7251

From owner-qrp-l@Lehigh.EDU Sat Jan 11 18:02:26 1997
From: GREGOIRE@ENDOR.COM (ERNEST GREGOIRE)
Subject: [8578] K2BEV,DE AA1IK,UR EMAIL,QRT
Message-ID: <199701112336.SAA32906@nss2.CC.Lehigh.EDU>

Hello Greoge,

I have been trying to get back to you but the messages keep bouncing. The message back says undeliverable.

de AA1IK N.E.-QRP-C. #202 (Lead by example, It is better to)
 QRP-L member #95 (pull a string than it is to push it.)
Ernie Gregoire FISTS #2644
RR 1 Box 221
Canaan, NH. 03741

New England QRP Club, information

available on request by sending me a
 S.A.S.E. or via E-mail.

e-mail : GREGOIRE@ENDOR.COM
packet : AA1IK@WA1WOK.FN43FE.NH.USA

From owner-qrp-l@Lehigh.EDU Sat Jan 11 18:02:26 1997
From: rhight@primenet.com (Roger Hightower)
Subject: [8557] LDG Autotuner
Message-ID: <199701112021.NAA20844@primenet.com>

This is a great kit at a great price. I already have the QRP version built, and it works fine.

Heard KJ5TF calling "CQ 49er" two nights ago, and scrambled to hook my 40-9er up. The LDG tuner was in line, and when that big 200mW hit it, the relays chattered and within a second or so there was a match at 1.2:1 on the WM-1.

I was a little skeptical about it working at QRPp levels, but am convinced now. Just ordered another to go inside the OHR-400 or the soon to come Sierra.

Unfortunately, couldn't make contact with KJ5TF. Mebbe another time.

72/73 de Roger N7KT Mesa, AZ Grid DM43cj
NorCal 40-9er, NC-40A, OHR Explorer 20, 30M, OHR400, HW-8, HW-9 and more to come.
NorCal 1099 CoQRP 176 QRP-L 62 G-QRP 9081 ARCI 8946 NE-QRP 383

From owner-qrp-l@Lehigh.EDU Sat Jan 11 18:02:26 1997
From: "Bruce C. Williams" <n9jcv@wwa.com>
Subject: [8565] LDG Tuner questions
Message-ID: <Pine.BSI.3.95.970111150925.1402A-100000@shoga.wwa.com>

Perhaps someone here could answer the questions I have about the LDG autotuner. I am contemplating buying one in the group buy.

Is the only difference between the High power model and the QRP model, the limit to RF. What is the QRP rf limit? What is the high power rf limit?

Can the tuners be used with ladderline?

Price info needed for both models.
 Thanks for your help

From owner-qrp-l@Lehigh.EDU Sat Jan 11 18:02:26 1997
From: wd4et@juno.com
Subject: [8493] LM373N AM/FM/SSB IC
Message-ID: <19970110.193641.6334.0.wd4et@juno.com>

I purchased a couple of the LM373 chips that were mentioned on the list.

Anyone know where I can obtain a copy of the spec sheet?

Thanks, Jeff WD4ET

From owner-qrp-l@Lehigh.EDU Sat Jan 11 18:02:26 1997
From: KF4OBL <Insight@cris.com>
Subject: [8541] Looking for info on Solar Powering a HT
Message-ID: <Pine.SUN.3.95.970111124517.13113A-100000@mariner.cris.com>

I noticed some people posting that they use Solar Power so I thought I would ask if anyone knows of a simple and inexpensive design for Solar Powering a HTx-202. I have been thinking about doing this since I got my HT but have never had the opportunity to talk to anyone who has done it. Any suggestions on what the basic requirements for 13.8v and 5A would be appreciated. Thanks.

73 de
Susan Driggers
KF4OBL
QRP # 932
QTH : EM85as
Always in search of new DX. Am willing to try a 2m sked with anyone !

From owner-qrp-l@Lehigh.EDU Sat Jan 11 18:02:26 1997
From: JFelts4572@aol.com
Subject: [8525] ND-QRP
Message-ID: <970111101347_679343060@emout12.mail.aol.com>

Gang, is anybody serious about going to ND to put it on the air? I'm in Rapid City,SD and could probably travel up there to help out, if it was in the western part of the state. By the way, when I was in the AF I spent 5 years at Minot, and loved it, had to be one of my best assignments!! I was very active with qrp when I was there also.

Jerry -- NR5A -- Box Elder, SD

wind chill ----60 below BRRRRRRRRR

From owner-qrp-l@Lehigh.EDU Sat Jan 11 18:02:26 1997
From: Rick Zabrodski <zabrodsk@med.ucalgary.ca>
Subject: [8534] Norcal 40a MRF 237 question
Message-ID: <Pine.SUN.3.95.970111092726.27783C-100000@ume>

I feel a need to warm up the shack by increasing the power output of my norcal 40a while I install VBT and a KC1 keyer. I have the postings on the MRF 237, just cannot seem to find one! They are not listed at Dan's web page or in current Mousers catalouge. (Not available locally, at least after three calls).

Then....I look in my junk box (?closet) and see I have two, new 2SC799 RF power transistors. My book says they are a replacement for ECG 237......are these essentially the same transitor as the MRF 237?

If not, would they work (W6EMD, are you reading this?) what alternatives would be suggested? (I have to order some stuff from Mouser anyway).

BTW, "nibblers" don't seem to exisit in Calgary. Rat Shack Canada is NOT the same company as US....they "used to carry them". Does anybody have anything to say about the "nibbler" that Mouser sells?

Thanks

Dr. Rick Zabrodski BSc, MD, CCFP(E) MRO * VE6GK
Clinical Assistant Professor * NorCal 519 ARCI 7650 GQRP 8329
Faculty of Medicine, Univ. of Calgary * "Power is no substitute for skill"

From owner-qrp-l@Lehigh.EDU Sat Jan 11 18:02:26 1997
From: Peter Beedlow <nn9k@worldnet.att.net>
Subject: [8494] North Dakota operating site
Message-ID: <2.2.32.19970111005308.006992d8@postoffice.worldnet.att.net>

Here is an operating site suggestion for a portable operation in North Dakota. A few years ago my wife and I took a long weekend and went to ND to operate in a QRP Sprint. Can't remember the exact contest but was one of the 4 hour events. Since we traveling from Illinois I was interested in a ND location in the Southeastern corner of the state. Found a really nice operating site at a state historical site, Fort Abercrombie, which is near Wahpeton.

There is room in the guard towers to set up equipment and they could serve as one anchor point for a dipole or long wire antenna. Would suggest taking portable mast or a pushup along if you're planning on using wire antennas. There is a tall flagpole on the parade ground but no shelter close to it. The site caretakers were very cooperative and made restrictions.

Hope this information helps.

Peter, NN9K
QRP-L #5

From owner-qrp-l@Lehigh.EDU Sat Jan 11 18:02:26 1997
From: Harri Ranta-Eskola <eskola@oden.se>
Subject: [8559] QRP+ avc/SCAF
Message-ID: <32D87A40.31B@oden.se>

I got just some days ago a new QRP+ and it is really impressive rig and nice to work with. Have done already many countires with it.

However, I have noticed that the AVC function could be better when using the SCAF filter and some strong station is just near by. The RX`s AVC starts to jump (I do not know if that is the right word but hope you understand me)in the rythm of the strong station and make it difficult to read a weak station with SCAF filter. I have noticed that in such a circumstances it is even better not to use the SCAF but rather trust on the filter in your ears. Does anybody know if that behaviour could be modified in QRP+ or what could I do to improve the rig in this regard???? Your kind help would be appreciated.

73 de SM5USK/Harri

From owner-qrp-l@Lehigh.EDU Sat Jan 11 18:02:26 1997
From: gsurrency@juno.com (Gary L Surrency)
Subject: [8581] Rat's Nest Eliminator
Message-ID: <19970111.164504.14206.3.gsurrency@juno.com>

Thanks for the message, Floyd. That is a project that sorely needs to be designed and built for most of us on this list. If somebody has a particularly good design on one of these station consoles, I'm sure everybody would like to hear about it. I think it is the logical next step for a lot of us QRP types with so many radios and the ensueing "rat's nest" of wires that creates.

If no one has a nice design they want to share, I guess I'll take a stab at building my own design. Been thinking about it for some time, and would really like some suggestions or ideas from those of you that have built any.

The necessary functions would include:

1. Self-contained, fused or current limited power supply of 13.8v and 2-5 amps or so.
2. Tuner, including un-balanced and balanced outputs at QRP levels.
3. Swr bridge and/or power meter for above.
4. Possible inclusion of LDG QRP autotuner. Maybe a balun on the output to allow balanced feed.
5. A switched array of jacks for multiple antennas, keys/keyers, power bus connectors for multiple rigs, etc.
6. A nice speaker and provision for various headphone jacks, etc.
7. Built-in keyer of KC-1, KC-2, TiCK design, or keyer of your choice.
8. Options, such as frequency display, power meter, etc. as in the KC-2 or other counter such as the one from S&S Engineering, etc. This would be great for those rigs with analog VFOs. One console would work with all your different rigs.
9. Imagine all of this in a nice cabinet designed to enhance the appearance of your QRP station, complementing the gear you presently own.

Why, I'll bet you could even convince the XYL (OM) to go along with this if it would neaten up that mess you lovingly refer to as a "shack".

Something like this appeared in a previous issue of 73 magazine a while back, although it didn't have all these features.

Ok guys, how about some ideas and input on how this should be done. This seems like an ideal project for us to develop together. Maybe Norcal, Ten-Tec, the St.Louis hams, or someone similar has missed this opportunity.
I know I would build or buy one in a heartbeat.

Am I on the right track here guys? Is this the accessory everyone's been waiting for and just has to have?

73,

Gary Surrency AB7MY
S&S TAC-1(40&80m) and ARK30
QRP-L #571 Chandler, AZ (near Phoenix)Grid Square DM43BH

From owner-qrp-l@Lehigh.EDU Sat Jan 11 18:02:26 1997
From: W5HNS@aol.com
Subject: [8547] Real live N. Dakota
Message-ID: <970111140052_373687312@emout11.mail.aol.com>

Some feller who calls himself Kent KA0LDG claims he is in North Dakota. The 1996 Call Book verifies it. I guess he ain't a slim afterall. I didn't know
there was electricity in N. Dakota, assuming, of course, that it does exist.

I will do WHATEVER it takes to make contact with ANY station in N.D. Especially if he is QRP.

Good luck guys! One more thing. Don't try to hang any quads up at the last minute just for us FSFD types.

73 Henry W5HNS
Pasadena, Texas Texas QSO Party May 3-5 1997 QRP catagory

From owner-qrp-l@Lehigh.EDU Sat Jan 11 18:02:26 1997
From: Ron Giuntini <rong@slip.net>
Subject: [8509] TiCK Keyer
Message-ID: <E0vivxj-0006VM-00@mouse.slip.net>

OK OK OK...I'm playing catch up...I realize that I will want to put a keyer in the 38 Special I ordered....Can somebody please tell me how to get one from Embedded Research? I have seen this discussed recently but did not

realize that I want one...You know...too many things going on at once....
Ron

From owner-qrp-l@Lehigh.EDU Sat Jan 11 18:02:26 1997
From: pablo@tron.upr.clu.edu (pablo)
Subject: [8505] USENET ? What is it?
Message-ID: <9701102343.AA22358@tron.upr.clu.edu>

Hi Gang:

I've read a lot of times about USENET Newsgroups... I would like
to know a bit more about this,at least for me, unknown aspect of the
Net. Ok I know what you are thinking why does this guy doen't search
over the WWW to satisfy his curiosity? Just because I only have access
to a text only terminal on my Unix account. So, I would be very grateful
if any of you can offer me some help over the subject. Thanks in advance
and excuse me for the non-QRP posting. BTW just received my copy of
The QRP Quarterly, just in time. GOOD job guys!

72 es Gl
Pablo
WP4JXD

From owner-qrp-l@Lehigh.EDU Sat Jan 11 18:02:26 1997
From: KF4OBL <Insight@cris.com>
Subject: [8532] WA1SVF's 2m Brick Amp ?
Message-ID: <Pine.SUN.3.95.970111110147.4380C-100000@galileo.cris.com>

If anyone has had any experience with this amp I would love to hear about
it. I am thinking of building one for my HTX-202.

73 de
Susan Driggers
KF4OBL
QTH : EM85as
Always in search of new DX. Am willing to try a 2m sked with anyone !

From owner-qrp-l@Lehigh.EDU Sat Jan 11 18:02:26 1997
From: "William R. Colbert" <v31xe@dzn.com>

Subject: [8497] Walt Maxwell
Message-ID: <32D70E05.1948@dzn.com>

In my copy of the book "Reflections", c 1990, second printing
1991, chapter 15 has the programs and on 15-23, top of page,
it says the software is available from ARRL as a separate
item. I think the cost of the software at the time was $10.
According to Buckmaster, Walt's call W2DU is still active,
renewed in 1995, and his home qth is listed in Florida -
no e-mail listed.
--
72/73, Ray Colbert, W5XE, SOWP 1064M
(also af852@rgfn.epcc.edu)
El Paso, Texas

From owner-qrp-l@Lehigh.EDU Sat Jan 11 18:02:26 1997
From: Frank G3YCC <g3ycc@gqrpclub.demon.co.uk>
Subject: [8518] Website
Message-ID: <852969311.107255.0@gqrpclub.demon.co.uk>

I have finally altered all my files and transferred them to my new server,
as below. Please also note the change of email address which is now
g3ycc@gqrpclub.demon.co.uk. My site at Geocities contains all the files
received from SM0VPO.
Please report any bugs in the files, it has been a big job amending them
and I could have omitted the odd thing!
Note also my email address which has also changed.
Thanks
----------------72/3 de Frank G3YCC ---------------
GQRP CLUB 042
QRP WEB SITES: http://www.gqrpclub.demon.co.uk
 http://www.geocities.com/CapeCanaveral/5179

From owner-qrp-l@Lehigh.EDU Sat Jan 11 18:02:26 1997
From: Steve /N0TU <N0TU@webaccess.net>
Subject: [8523] Will Snowy Roof Affect Antenna?
Message-ID: <32D7A657.15FB@webaccess.net>

Just wonder if my indoor/attic antenna is affected by 6 inches of snow
sitting on the roof. I'm using a center fed 70 foot Zepp feed w/300 ohm
twinlead at the peak of the rafters about 6 inches under the shingles.
The snow doesn't seem to affect the SWR - I don't have to change any

settings on the antenn tunner that is!...But I've notice that I get
fewer replies (fewer than normal for QRP) when the roof is covered
w/snow! Any guesses??

Regards.....Steve
--
portable/solar powered QRP QRP-L # 911
49er/HW8/ExplorerII/Zepp in attic @ CO SPGS,CO ARS # 206
_____ _ _ ____ _ ___ _ _ _ __ __ __
_____C_U L____D_E___N_0_T_U__.__.__

From owner-qrp-l@Lehigh.EDU Sat Jan 11 18:02:26 1997
From: Jim Hydzik <congress@magpage.com>
Subject: [8511] WTB Drake R-4C 1.5 KHz CW filter
Message-ID: <199701110409.XAA08315@alaska.magpage.com>

Yep, it's for my #1 QRP receiver at home.

Got the 500 and 250 Hz filters but need the 1.5 Kc BW filter.

I'd rather give the $$ to someone in QRP so they can buy more neet stuff.

I'll even trade TWO Rainbow tuners for the filter.

TKS for checking that junque drawer, Jim K3QIO Delaware

From owner-qrp-l@Lehigh.EDU Sat Jan 11 18:02:26 1997
From: NZ8J <timcook@erinet.com>
Subject: [8569] [Fwd: FS: HW-9]
Message-ID: <32D804F4.4757@erinet.com>

This is a multi-part message in MIME format.

--------------75F74086F93
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Forgot to mention, would consider trades on single banders, ohr-400,
sierra , make an offer
Tim
NZ8J

--------------75F74086F93

Content-Type: message/rfc822
Content-Transfer-Encoding: 7bit
Content-Disposition: inline

Message-ID: <32D7064E.5CEA@erinet.com>
From owner-qrp-l@Lehigh.EDU Sat Jan 11 18:02:26 1997
From: Scott Rosenfeld NF3I <ham@w3eax.umd.edu>
Subject: [8549] Re: 275W EFJ Matchbox FS
Message-ID: <Pine.3.89.9701111350.A11081-0100000@w3eax.umd.edu>

Make me a deal on the 961 power supply and the 705 mic, OM!

Which rig is the rebuild kit for?

* Scott Rosenfeld NF3I Burtonsville, MD FM19mc QRV 80-10/6/2/440 *
*** 6m 75 grids worked on 8 watts *** HF 138 cfmd * QRP-L #147 ***
** QRP ARCI #9054 ** DXCC/WAS/WAC *** 100% dipole powered HF/6m **
* 301-549-1022 h / 301-982-1015 w *** 145.490- 147.225+ PL 156.7 *

On Sat, 11 Jan 1997 PaulKB8N@aol.com wrote:

> Gang,
>
> I have a beautiful EF Johnson 275W Matchbox for sale. It includes the
> built-in SWR meter and the directional coupler. No major scratches or
> gouges, a few nicks. This is one of the nicest I've ever seen and will sell
> for $115 plus shipping.
>
> Other items FS:
>
> TenTec VFO rebuild kit, $10 plus shipping
> TenTec Electret Microphone, Model 705, as new, $35.00 plus shipping
> TenTec 961 Power Supply, near mint, $140 plus shipping
>
> Thanks for the BW!
>
> Paul, KB8N
>
>

From owner-qrp-l@Lehigh.EDU Sat Jan 11 18:02:26 1997
From: PaulKB8N@aol.com
Subject: [8566] Re: 275W EFJ Matchbox FS
Message-ID: <970111161557_945559125@emout19.mail.aol.com>

Wow! What a response! Matchbox sold immediately! Other items are being

negotiated.

Paul, KB8N

From owner-qrp-l@Lehigh.EDU Sat Jan 11 18:02:26 1997
From: gsurrency@juno.com (Gary L Surrency)
Subject: [8537] Re: audio amplifier kit
Message-ID: <19970111.102458.10374.1.gsurrency@juno.com>

I think Ten-Tec's T-kits has just what you are looking for. Check them out.

73,

Gary Surrency AB7MY
S&S TAC-1(40&80m) and ARK30
QRP-L #571 Chandler, AZ (near Phoenix)Grid Square DM43BH

From owner-qrp-l@Lehigh.EDU Sat Jan 11 18:02:26 1997
From: Bob Roach <KE4QOK@worldnet.att.net>
Subject: [8524] Re: Cascade Goof-up + Desoldering ICs?
Message-ID: <19970111144157.AAA17301@LOCALNAME>

At 08:18 AM 1/11/97 +0000, you wrote:
.
>Anyone have any great ideas for getting the NE602 off the board? (I do have another so I'm
>not concerned about the 'integrity' of the one that's in there).

If you are not concerned about saving the IC, then the best thing is probably to cut each leg as close to the IC as possible and then heat each leg from the bottom while pulling gently from the top with piers. This looks like a good place to plug IC sockets.<GGGGG>

 (o o)
_____________________oOO_()_OOo_________
73 es TNX
KE4QOK Real radios glow in the dark.
Bob Power is no substitute for skill.
 If it stayed up last winter, it was too small.
136 Hermitage Rd.
Newport News, Va. 23606 KE4QOK@worldnet.att.net
(757)930-0348

From owner-qrp-l@Lehigh.EDU Sat Jan 11 18:02:26 1997
From: gsurrency@juno.com (Gary L Surrency)
Subject: [8538] Re: Cascade Goof-up + Desoldering ICs?
Message-ID: <19970111.102458.10374.4.gsurrency@juno.com>

Best to cut off the leads, and then remove the pins one by one. If one is really careful, masochistic and near-sighted, one can successfully un-solder 8 pins without damaging the PCB and/or IC. Solder Wick, vacuum plungers, etc. But you have to be a real good solderer / de-solderer with many rolls of melted PbSn under your belt. Even then, the board may look a little "abused".

If ya gotta 'nother one, best to scacrifice the backward one. Say a little prayer for its passage into the next life. Amen.

73,

Gary Surrency AB7MY
S&S TAC-1(40&80m) and ARK30
QRP-L #571 Chandler, AZ (near Phoenix)Grid Square DM43BH

From owner-qrp-l@Lehigh.EDU Sat Jan 11 18:02:26 1997
From: Bob Hightower <ki7mn@dancris.com>
Subject: [8540] Re: Cascade Goof-up + Desoldering ICs?
Message-ID: <199701111745.KAA03591@dancris.com>

At 08:18 AM 1/11/97 +0000, you wrote:
>Hi Gang,
>
>Well, I found my first goof-up on my Cascade project. Installed U6 backwards.
>
>Although I've built a little, I'm a first-timer with the 'double-sided plated-through' nonsense.
>Anyone have any great ideas for getting the NE602 off the board?

I would just clip the leads (legs?), and tack solder the new chip to them. It is going to be difficult to get the old ones out. Can be done, but the chance of damage is there. Just tack the new one onto the old legs.

Unless you're a purist, or anal, or whatever. With the cover on, who knows?

Maybe just tack a chip socket to the old legs, and plug the new chip in.
73,
Bob, KI7MN Chandler, AZ ScQRPion QRP-L #271, NorCal #1228, CQC #274, QRP ARCI #8918, AK QRP #30, not in any order of importance.

http://www.dancris.com/~ki7mn

From owner-qrp-l@Lehigh.EDU Sat Jan 11 18:02:26 1997
From: Monte Stark <ku7y@sage.dri.edu>
Subject: [8542] Re: Cascade Goof-up + Desoldering ICs?
Message-ID: <Pine.SUN.3.90.970111094617.29085B-100000@vortex.sage.dri.edu>

Hi Harry,

Save yourself a lot of work and worry and give the board a big break.....just cut the legs off that backwards 602, remove each leg by unsoldering and install a new one.

Some irons have adaptor tips that will unsolder a whole IC at once and they work well also, but few have those.

I have seen many high priced boards ruined while trying to save a $1 or less IC!

cul,

73, Ron,

.........KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@sage.dri.edu...........Washoe Lake, Nevada....
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

From owner-qrp-l@Lehigh.EDU Sat Jan 11 18:02:26 1997
From: KF4OBL <Insight@cris.com>
Subject: [8544] Re: Cascade Goof-up + Desoldering ICs?
Message-ID: <Pine.SUN.3.95.970111125609.9259D-100000@galileo.cris.com>

The desoldering of the legs is possible but as someone who does this for a living I don't suggest it unless you are really familiar with heat damage and preventing it , etc. Your best bet is to buy a new one and an IC holder. Solder the holder to the board then insert the IC. This way if you get it backwards all you have to do is pull it out of the holder. No

harm done.

73 de
Susan Driggers
KF4OBL
QRP # 932
QTH : EM85as
Always in search of new DX. Am willing to try a 2m sked with anyone !

From owner-qrp-l@Lehigh.EDU Sat Jan 11 18:02:26 1997
From: "Dana H. Myers" <myers@bigboy.West.Sun.COM>
Subject: [8545] Re: Cascade Goof-up + Desoldering ICs?
Message-ID: <Roam.3.0.1.853007436.12810.myers@bigboy>

Susan wrote:

> The desoldering of the legs is possible but as someone who does this for a
> living I don't suggest it unless you are really familiar with heat
> damage and preventing it , etc. Your best bet is to buy a new one and an
> IC holder. Solder the holder to the board then insert the IC. This way if
> you get it backwards all you have to do is pull it out of the holder. No
> harm done.

An 8 pin mini-DIP is pretty easy to de-solder, even from a plated
through PCB. At the next swap meet, look for a few things:

* A vacuum solder-sucker, like a Solda-Pullt or somesuch. Get one
with the plastic nozzle (the metal nozzle is too dangerous on PCBs).

* A few surplus PCBs loaded with components. These are for practice.

* A small flat-blade screwdriver, the tip of the blade no wider than
.1".

To desolder:

1. Use a fine tip on your iron with a moderate temperature.

2. Heat the pin/pad so that the solder melts all the way through
the hole. Sometimes it helps to add a little flux - a tiny bit of
solder can be the source.

3. Once the hole is heated through (about the same amount of time it
takes to solder the joint), rapidly remove the soldering iron and

put of the nozzle of the solder-sucker flat against the PCB, centered on the pin.

4. With no delay, push the button on the solder sucker.

** I can't emphasize the need to be smooth and rapid in steps #3 and #4 enough. Rapid so the solder stays liquid; smooth so you don't damage the PCB. It isn't as hard as it sounds, practice on some junk boards **

5. Inspect the desoldered hole. Usually, a little bit of solder will be sticking between the component lead and hole. You can free this up by teasing it slightly with the hot iron, or, in minor cases, with a little tease with the screwdriver. In a difficult case, you may need to re-apply solder and re-suck the hole after teasing it a little.

6. Do this for every hole on the component to remove.

7. When all holes are clear, the component often falls out. If not, carefully inspect all the holes, top and bottom, for solder. If you can't find any obvious solder globs left over, then very carefully tease the component out of the PCB with the small screwdriver. Be careful when prying as to not ding, cut or otherwise mar any traces on the top of the board.

8. After removing the component, inspect the PCB top and bottom for any little globs of solder; remove them and (ideally) clean the PCB top and bottom before installing the new component. I usually use a Q-tip swab with alcohol for this.

As hard as it sounds, the above process takes less than a minute for most components, and I rarely fry the board. Larger DIPs (24 - 48 pins) take longer, but be patient. I think that a desoldering test would be *far more* valuable than a Morse code test to get a ham license, BTW, but that's just me ;-).

In RF circuitry, a socket can be a liability, by adding extra parasitic reactances. In any circuit, a socket is a reliability liability. So, think carefully before using sockets in radio gear.

Dana K6JQ
Dana@Source.Net

From owner-qrp-l@Lehigh.EDU Sat Jan 11 18:02:26 1997
From: "Duane C. Johnson" <redrok@pclink.com>
Subject: [8550] Re: Cascade Goof-up + Desoldering ICs?

Message-ID: <32D8043C.4E70@pclink.com>

Hi Harry;

bump@redrose.net wrote:
>
> Hi Gang,
>
> Although I've built a little, I'm a first-timer with the
> 'double-sided plated-through' nonsense. Anyone have any
> great ideas for getting the NE602 off the board? (I do
> have another so I'm not concerned about the 'integrity'
> of the one that's in there).
>
> 73 and thanks,
>
> Harry, KM3D
>
> OUTLAW WIRELESS LEAGUE
> QRPARCI #3875
> NORCAL #1295
> QRP-L #637

Try this if you think your NE602 is still good. (It's a
good bet that it was not damaged.)

Cut all IC leads in half about 1/2 way between the body
and the board. Now turn the IC around and reconnect the
leads by soldering. I have done this a number of times.

You also can use the same technique if the IC was
replaced.

--
CUL8ER

Stupid is Forever.
Ignorance can be Fixed.

Duane C. Johnson
Ziggy
WA0VBE
Red Rock Energy
Solar Heliostats
1825 Florence St.
White Bear Lake, MN, USA 55110-3364
(612)635-5065 w
(612)426-4766 h

redrok@pclink.com
dcj2@PO8.RV.unisys.com
http://www.geocities.com/SiliconValley/3027/

From owner-qrp-l@Lehigh.EDU Sat Jan 11 18:02:26 1997
From: Cecil A Moore <Cecil_A_Moore@ccm.ch.intel.com>
Subject: [8553] Re: Conjugate Matching

>From: jeffa@ix.netcom.com (Jeff Anderson)
>Cecil, the simplest way to discuss conjugate matching with a generator
>is to look at the load that the generator sees looking out of its
>output terminals. This load must be the complex conjugate of its
>internal source impedance.

Hi Jeff, When you said "the" load, I assumed you were talking about the only load referenced in the conjugate matching theorem - the one at the load end of a transmission line. It appears now that you were not talking about the same load that the theorem talks about. Sorry I misunderstood.

>From the generator terminals outward, I think we both understand what happens because there are only passive elements, however complex. What I perceive that you and the ARRL do not appreciate is the dynamic nature of the generator. When one looks back into the generator terminals, one is actually not seeing the load - the load is in the opposite direction. What one is seeing is the effect of the load. What one is seeing is the *loadline* of the generator. It's obvious that whoever named it the loadline realized that it was being determined by the load.

Thevenin and Norton equivalent circuits are invalid for modeling *anything* with a non-dissipative loadline! Please purge your mind of the Thevenin model for this discussion - it just doesn't work for the analysis of typical ham radio amplifiers. Thevenin, himself, warned against such use of his model.

We can buy linear amplifiers with a 50 ohm internal impedance but those devices are not generally used as the output amplifier for ham radios. Our amps are usually discrete tubes or transistors and, when operating properly as designed, have the voltage output and the current output in phase in a particular ratio of voltage to current that determines the loadline. It is not usually 50 ohms but is usually matched to 50 ohms by a four-terminal network. If you have ever done any simple RF amplifier design, you know the loadline dynamically adjusts itself to the load - it has no other choice. But there is only one loadline that will allow for the maximum

transfer of power to the load without exceeding the dissipation rating of the amplifier. That's just got to be the conjugate match point. Now here's the key, IMO, that you (and the ARRL) are missing. Please open your (self-admitted) closed mind for just a few minutes.

The primary impedance one sees when looking back into a functioning discrete RF amplifier stage in a typical ham radio, is R-loadline, a NON-DISSIPATIVE RESISTANCE. We conceptualize about lossless transmission lines because it makes the concepts and math simple enough for most people to understand. Keep that mind open for just a few more minutes while we conceptualize about a lossless RF amplifier. (I know there is no such thing but there being no such thing has not stopped us from discussing lossless transmission lines.)

What should the load impedance be to ensure maximum power transfer from a lossless generator? Zero? Hi - Hi - Hi! Seems to me that an amplifier should be tuned to a designed-for loadline, (not exceeding it's maximum dissipation rating), i.e. *matched* to it's designed-for load. The loadline is then automatically matched to the load and ***a conjugate match is achieved***. The R-loadline in the amplifier is then the conjugate of the designed-for load. W8JI has run experiments that indicate a change in the R-loadline in either direction causes a drop in power delivered to the load. Introducing reactance to the load does the same thing. IMO, if it is impossible to increase the power delivered to the load, that can be *nothing but* a conjugate match.

>Regarding the subject about which the "world's foremost RF experts"
>disagree, I honestly don't have a clue what it is. In everything I
>read by them, I see agreement. Could it be that some third party has
>misinterpreted their comments, taken umbrage, and started a malicious
>rumor? Hmmmmm...

Begging your pardon, IMO, based on what is generally known, I respectfully agree with the "not having a clue" part. :-) I engaged in months of email directly back and forth to the ARRL. I wound up feeling just like Copernicus did when he told the Pope that the earth is not the center of the universe. Find out for yourself what is happening to Walter Maxwell's considerable and enlightening contributions.

I apologize if I have misunderstood any of your postings. It appears that we have never disagreed on anything in the rest of your latest posting. I trust you are not trying to imply such with a straw man. The only thing we disagree on is the value of the generator impedance in a normally functioning, properly tuned ham radio amplifier. It certainly cannot be measured by bouncing an unrelated signal frequency off of it. The impedance calculated by Bruene is interesting but, IMO,

has nothing to do with actual conditions at the operating frequency of the amplifier. That opinion is shared by *all* of the professional RF designers that I have polled.

The bottom line is, if I am right, we have always been tuning our antenna tuners to a conjugate match for the purpose of delivering maximum available power to the antenna. If you are right, we are not doing that. It follows then, that there must be a new and superior way to tune our systems for the purpose of radiating more power. I just want to know what that new and superior procedure is. That information would be worth a lot to a QRPer.

73, Cecil, W6RCA, OOTC

From owner-qrp-l@Lehigh.EDU Sat Jan 11 18:02:26 1997
From: Cecil A Moore <Cecil_A_Moore@ccm.ch.intel.com>
Subject: [8556] Re: Conjugate Matching

>From: "Paul Christensen" <paulc@ccse.net>
>Therefore, if we tune (conjugate) a transmission system, aren't we
>maximizing the power being dissipated in the load (antenna) from the
>generator?

Hi Paul, the theorem says so and I believe it. But some people say that there is not a conjugate match in the typical amateur radio system. I say, if that's true, there must be a better way of tuning to get more power to the antenna. Pay attention to the latest ARRL publications and see how important they believe conjugate matching really is.

>I'm not so sure that Bruene and Maxwell were ever in disagreement.

What happened to "Reflections"?

73, Cecil, W6RCA, OOTC

From owner-qrp-l@Lehigh.EDU Sat Jan 11 18:02:26 1997
From: "Joseph L. Hartmann, Jr." <joeh@sugar-river.net>
Subject: [8568] Re: Conjugate Matching
Message-ID: <Pine.BSD/.3.91.970111165126.26370H-100000@arakis.sugar-river.net>

On Sat, 11 Jan 1997, Cecil A Moore wrote:

> What happened to "Reflections"?

The ARRL has given M Walter Maxwell the rights to its future
re-pubication. The ARRL has not chosen to reprint, since demand
for it is low, and almost everyone who would buy it has already
done so. [a free translation of a communication from the ARRL
to me] Mr. Maxwell has told the ARRL he will republish
"Reflections" *after* he makes some revisions.

This is a wise decision. We are all wondering: WHERE are
those revisions ? ? ?

I expect the sales of the revised edition will be very strong.

M Walter Maxwell is W2DU.

I can now state his address can be found in the call book.

>
> 73, Cecil, W6RCA, OOTC
>
>

Best Regards,

Joe Hartmann Tel: (603) 863 6073
K2AJV -issued email: joeh@sugar-river.net
 1951 home-page: http://www.sugar-river.net/~joeh

First Student at the:

 Linux Academy in the Sunshine Town of Newport, NH

Thanks to RMS, Linus, and other contributors of free software!
------------ I grant this to the public domain ------------

From owner-qrp-l@Lehigh.EDU Sat Jan 11 18:02:26 1997
From: adams@chuck.dallas.sgi.com (chuck adams)
Subject: [8519] Re: Conjugate Matching (read if your are confused)
Message-ID: <199701111114.LAA01790@chuck.dallas.sgi.com>

Joe,

My OCF goes North and South, therefore you are correct, i.e.
all OCF antennas go North and South. Wonderful logic and as
always, just perfect.

If I lose a watt in my MFJ-941C, you won't be hearing me at all.

:-)
SIG
Chuck Adams K5FO adams@sgi.com

From owner-qrp-l@Lehigh.EDU Sat Jan 11 18:02:26 1997
From: JFelts4572@aol.com
Subject: [8526] RE: E-mail Providers
Message-ID: <970111102048_407211364@emout13.mail.aol.com>

Guess I've been lucky, I'm on AOL's unlimited plan, and have never had a problem getting on, and we only have one access number. Oh well, I still would not pay it on a long term deal tho.

Jerry -- NR5A -- Box Elder, SD

From owner-qrp-l@Lehigh.EDU Sat Jan 11 18:02:26 1997
From: "Joseph L. Hartmann, Jr." <joeh@sugar-river.net>
Subject: [8514] Re: Email providers
Message-ID: <Pine.BSD/.3.91.970111014120.4107B-100000@arakis.sugar-river.net>

I am very sorry to hear of your experience. I would call my credit card company and explain the scam to them. They should go to bat for you. I would not pay this. I will warn my friend who has been thinking about doing this to STAY AWAY FROM AOL. Jeeeez -- my son is on AOL -- have to warn him too! In fact I'll check my address book and warn them all. Thanks for the warning. I was wondering how AOL was going to be able to swing the "flat rate". Now I know.

Good luck.

Best Regards,

Joe Hartmann Tel: (603) 863 6073
K2AJV -issued email: joeh@sugar-river.net
 1951 home-page: http://www.sugar-river.net/~joeh

First Student at the:

 Linux Academy in the Sunshine Town of Newport, NH

Thanks to RMS, Linus, and other contributors of free software!

------------ I grant this to the public domain ------------

On 11 Jan 1997, Dan Keen wrote:

> Howdy all on QRP-L, this message concerns email providers, one of which is
> necessary for anyone wishing to use the QRP-L list. My purpose here is to
> provide a warning about signing up with the wrong company. I signed up with
> AOL, and it sure looks like it is going to cost me about three hundred
> fifty-eight dollars.

From owner-qrp-l@Lehigh.EDU Sat Jan 11 18:02:26 1997
From: Sjolin@aol.com
Subject: [8573] Re: Email providers
Message-ID: <970111170233_1418512728@emout09.mail.aol.com>

In a message dated 97-01-11 00:46:23 EST, 70731.722@CompuServe.COM (Dan Keen)
writes:

<< The day after accepting that offer, I started getting busy signals every
 evening which I try to get online. Every single evening.

 Most evenings I cannot get any access to AOL, even with 10 to 30 tries of
 calling on the two local AOL access numbers. The best I've done in the last
2
 weeks after signing up was to get connected after 8 dials. Every other
 evening I could not get on at all after trying 10 to 30 dials and then
 giving up. Both lines were always busy. >>

Sorry to hear that you are having trouble. I think the whole mess traces to
their new pricing strategy where they offer unlimited access at $19.95. That
service began I believe on January 1. As of that date I have experienced
similar problems. However, we have three access lines here in St. Louis so I
only have to dial, on average, eight times before I can get a line. THIS IS
VERY FRUSTRATING.

I use AOL only for email because it supports MIME encoding and Compuserve
does not. On Monday I should receive network software from Southwestern Bell.
When that arrives, American On-line will be a thing of the past. I have been
with them for at least five years, probably more. But I need the email for
work as well as pleasure. When I need to transmit a file over the Internet, I
need to send it right then, not late at night.

My first thought was that the unlimited usage was enabling users to stay
connected twenty-four hours a day, regardless of whether they were using the
system or not. They emailed me back a note saying that they have a fifteen

minute timer that drops inactive connections. I still wonder if those being disconnected, dont just have their system setup to immediately dial back up if disconnected.

<<Called their billing information service tonight to politely ask for refund
of the money because I cannot get online hardly at all. AOL representative informed me that I cannot receive a refund, they said that once I had paid them, its a non refundable situation, and that they absolutely will NOT refund the money despite my report of not being able to use their service hardly at all. They said that it is too bad that I'm out the money but that AOL will not give to me any refund because AOL does not in any way guarantee

that AOL will in fact be able to provide reasonable service for the charges which they have collected in advance from their customers.>>

Did you pay for access by credit card? Raise a fuss with the credit card company and refuse to pay. There is a procedure for handling disputes. Contact the credit card company and they will tell you what to do.

If you paid by check, has it been processed yet. If not, but a stop payment order on it. That puts the leverage back on your side.

If none of the above, write to Steve Case, their President, copy the Better Business Bureau and one or two Computer Magazine editors. Describe what their billing person said to you and ask if that is really their corporate policy. Tell them that you want and expect a full refund. Anything else would be consumer fraud on their part. That ought to get some reaction.

73 de Dave, N0IT

From owner-qrp-l@Lehigh.EDU Sat Jan 11 18:02:26 1997
From: ka7you@juno.com (rodney j johnson)
Subject: [8517] Re: Email providers (and JUNO)
Message-ID: <19970110.225212.3494.10.KA7YOU@juno.com>

Dan,
 I am a AOL subscriber, and have had very little trouble getting on-line here in the Seattle area. I don't use it for E-Mail. Instead I use JUNO. It is free and although it is not perfect, I am quite satisfied with the service. I will admit that I get home at 2:00AM, but that is not my usual time to get on-line, except that I always check my JUNO account then, but the AOL is almost always accesssed during the day on weekdays-everyone else at our house is away at school or work then, so I can tie up[the phone line and only the makers of the junk phone calls

have a problem with it.
 I suspect that AOL will get it together before too long, but their attitude is not very re-assuring.
 Then there are guys like me who just bought a $35 14400 modem for a backup computer, instead of the $135 28800 one, because the time didn't matter any more. I can wait a little longer for the picture to finish filling the page, and it doesn't cost me anything extra now!
 7 3,
Rod Johnson KA7YOU NWQRP#120 ARCI-QRP#7251

On 11 Jan 97 00:41:32 EST Dan Keen <70731.722@CompuServe.COM> writes:
>Howdy all on QRP-L, this message concerns email providers, one of
>which is
>necessary for anyone wishing to use the QRP-L list. My purpose here is
>to
>provide a warning about signing up with the wrong company. I signed up
>with
>AOL, and it sure looks like it is going to cost me about three hundred
>
>fifty-eight dollars.
>
>A little over month ago I received one of those millions of 50-hour
>free
>America On Line (AOL) trial CD software disks. During the 25 days that
>I used
>this trial version of AOL, access to the services was almost perfect,
>in fact
>I only got less then 5 busy signals total during dozens of log-on
>calls over
>those 25 days. Being satisfied, I signed up for the 2 year in advance
>rate of
>just under 15 bucks per month, a total of 358 dollars which I paid up
>front
>by a single mouse click. That was about 2 weeks ago and it was in my
>opinion
>now a big mistake.
>
>The day after accepting that offer, I started getting busy signals
>every
>evening which I try to get online. Every single evening.
>
>Most evenings I cannot get any access to AOL, even with 10 to 30 tries
>of
>calling on the two local AOL access numbers. The best I've done in the
>last 2
>weeks after signing up was to get connected after 8 dials. Every other
>
>evening I could not get on at all after trying 10 to 30 dials and then

>
>giving up. Both lines were always busy.
>
>The AOL 800 number for tech help, and also the one for billing plays a
>
>recorded message apologizing for the fact that capacity of the access
>system
>is now very poor. So AOL admits that there is a very serious problem
>accessing their service now.
>
>Called their billing information service tonight to politely ask for
>refund
>of the money because I cannot get online hardly at all. AOL
>representative
>informed me that I cannot receive a refund, they said that once I had
>paid
>them, its a non refundable situation, and that they absolutely will
>NOT
>refund the money despite my report of not being able to use their
>service
>hardly at all. They said that it is too bad that I'm out the money but
>that
>AOL will not give to me any refund because AOL does not in any way
>guarantee
>that AOL will in fact be able to provide reasonable service for the
>charges
>which they have collected in advance from their customers.
>
>Just posted this so that folks on the list can consider some things
>before
>signing up for an EMAIL service for to read the QRP-L list. I would
>say that
>a single month in advance payment is much better policy then longer
>periods,
>that way the risk would be relatively small.
>
>By the way Compuserve continues to answer without being busy. I am on
>Csi
>every night and haven't gotten a single busy signal in weeks. I only
>added
>AOL for their heavily advertised low cost Internet access, should have
>stayed
>with the more expensive Compuserve (Csi).
>
>Dan Keen K6DZ
>
>
>

From owner-qrp-l@Lehigh.EDU Sat Jan 11 18:02:26 1997
From: Wa2eaw@aol.com
Subject: [8575] Re: Email providers,
Message-ID: <970111175510_1991700656@emout03.mail.aol.com>

To all you guys that have been posting that the free disks received in the mail are great to reformat and etc. If you keep talking like this the FREE DISK FAIRY will stop sending them to you. That is how we get them is'nt it ?
Bob WA2EAW

From owner-qrp-l@Lehigh.EDU Sat Jan 11 18:02:26 1997
From: gsurrency@juno.com (Gary L Surrency)
Subject: [8539] Re: Email providers, Smoke demons, etc.
Message-ID: <19970111.102458.10374.3.gsurrency@juno.com>

This was bound to happen. Sorry to hear it was someone on this list.

Every family in the entire US is getting into the Internet. Many just came on-line this Christmas season. I don't care which ISP you like, soon they become overloaded and you'll be looking for a new one.

I get these "free" AOL and Compuserve disks in the mail every week, or in whatever piece of new computer gear I buy. I promptly toss them in the trash where they belong. If Bill Gates and his pal Paul Allen (who is the brainchild of AOL) had their way, everybody would be on AOL and using MS Explorer and MSN. You see, neither of these fine gents have enough money yet. And a multi-processor computer running Pentium Pro 200MHz chips wouldn't be fast enough, either. You all know the old joke about what destroyed the Borg, someone gave them a copy of Windoze, etc.

A free market with good competition is the best way to keep service and pricing low, and long term contracts just kill this principle. This is the age of buy-outs and mergers, and what has it gotten us? Cheap gas? Cheap medicine? Cheaper anything? Ha! Well, maybe SOME computer products are cheaper and/or better.

Sorry to hear you can't get a refund. You might still try to go thru the FTC, or threaten to write letters to all of the major trade journals about your poor experience with AOL. Is this under the jurisdiction of the ICC, FCC, or some other g'mint agency since it is across state borders? Or how about getting your credit card company to intervene in this? Never, I repeat NEVER, sign up for anything related to the computer/internet business for mutiple years. It is just too risky with

technology and services changing as quickly as they do.

Sorry for the bandwidth. Just an opinion about predatory marketing and its results. Flame suit on.

Elsewhere in the world,

If you are looking for a good rugged device to replace the one you just blew up in your QRPs PA stage, I recommend the NTE235. I just put one in my TAC-1 for 80 after the MRF-476 failed to survive my tuner tunings.

You see, the short bursts of high SWR on my 80m were just too much for the little fellow, and he reacted to the reactance by committing suicide. Fine, says I, a lesson learned. After performing the rites of passage into the smoke-free hereafter for him (the trash can for you infidels), I looked for a new guinea pig, er, candidate. The NTE235 was available here at Electronic City for about $6.30, so I decided to try it. It produces about 7 watts output in the 80m TAC-1, and runs cool. At least, its supposed to run cool. Read on, pilgrims.

Yesterday, while I had the antenna switch in the OTHER position as I listened to the 40m TAC-1, I smelled something like the arrival of the smoke demon. I looked around to see if I had left the soldering iron on. Nope, it was as cool as could be. Funny, I still smell something like burning wires. Must be coming from the other room where the electric heater is on. You know, when a hair gets drawn into the heating element, and then, POOF! Man, that smells bad!

Finally I brushed my arm over the open cabinent of the 80m rig as I reached for something. Say! WHAT IS SO HOT OVER HERE? Uh Oh. Quick! Turn off the power switch. (The 12v to the PA collector is always there if the power switch is on.) Now, getta grip. Maybe it'll be OK when it cools off.
Yeah. Let it cool off. I just looked at it sheepishly to see if the PCB had also gone up in smoke. Looks OK. Ahh! It couldn't have been too hot for too long, or the PA would have shorted completely and taken out the fused power supply that was also powering the 40m rig. I would have noticed when it lost power. Dunce cap is ON. <8^) Duhhh!

Ya know what? It's OK! After it cooled off and I checked the power output on the OHR WM-1, it had the same RF output as before! It's just better "stress-relieved" now, that's all. The white thermal compound on the heat sink does look a little "cooked" now, though. :-(

So what happened? Well, with the antenna switched over to the OTHER rig, I must have bumped the keyer paddle, and sent a burst of RF into an open load. The PA responded to this indiscretion by yelling at the top of its

"lungs" in VHF parasitic oscillations. I just can't hear those frequencies! I did repeat this accidental "experiment" with the monitor scope on it to see what kind of obsenities it was trying to scream at me. Yuk!

Looking up the spec's on the NTE235 revealed it has a very good BVcbo and BVceo of 65 volts. A pulsed collector current of 3 amps, BVebo of 4 volts, and an hFE of 80. The collector dissipation is 12 watts, and it has a fT
of 300 MHz. (Probably near the frequency it was screaming at me).

Hey! This is one tough lil bugger! It survives well even without a protective zener diode! Good Grief Charlie Brown!

So the rule of the day is: "Turn off the power to any un-used rigs while you are playing with another one." Especially if they share the same antenna switch, or have paddles connected.

If you err, and your little peep squeak PA's agony is undetected by you (a fluke of nature that we don't hear or see in the lower EM spectrum), try a much more rugged device that can sustain the torture you subject it to.

Am I starting to sound a little like Nils? Must be that medication the Dr. put me on. Or was it the leftovers from last night? Naah!

Hey Daniel Wee! Is that 2SC1678 in your ARK20 this tough? Inquiring minds (tortuous one) want to know!

Am I the only one who has ever done this? Just another reason to build that custom station accessory cabinet with power supply, speaker, switching for all the QRP toys, SWR meter, tuner, dummy loads (to be connected to any un-used rig outputs). ;-)

72, Still looking for that perfect ISP.....

Gary Surrency AB7MY
S&S TAC-1(40&80m) and ARK30
QRP-L #571 Chandler, AZ (near Phoenix)Grid Square DM43BH

From owner-qrp-l@Lehigh.EDU Sat Jan 11 18:02:26 1997
From: Bill Myers <bmyers@destin.nfds.net>
Subject: [8546] Re: Email providers, Smoke demons, etc.
Message-ID: <1.5.4.16.19970111094831.0a279c8e@destin.nfds.net>

At 12:27 PM 1/11/97 EST, Gary L Surrency wrote:

>I get these "free" AOL and Compuserve disks in the mail every week, or in
>whatever piece of new computer gear I buy. I promptly toss them in the
>trash where they belong.

 I'm saving mine, right now I have over 50 coasters for my drinks in
different colors and designs.

 I think I may design a new antenna system when I reach 100+...

 Maybe something in the UFO style for April's TTF...

 72/73

--
Bill Myers KK4KF Grid - EM60rk
FISTS#2390 QRP-L#755 ARCI#9282 scQRPions#42 CQC#386
Snail Mail P. O. Box 178 Shalimar, FL 32579
e-mail <bmyers@destin.nfds.net>
homepage http://destin.nfds.net/~bmyers/
 (Reptiles/Emergency Services/Amateur Radio)
CHECK OUT THE FISTS INTERNATIONAL CW CLUB U. S. HOMEPAGE
http://n9nvv.qrp.com/~fists (That's N 9 N V V)

From owner-qrp-l@Lehigh.EDU Sat Jan 11 18:02:26 1997
From: kd1jv@juno.com (Steven Weber)
Subject: [8555] Re: Email providers, Smoke demons, etc.
Message-ID: <19970111.145247.4863.1.KD1JV@juno.com>

>>I get these "free" AOL and Compuserve disks in the mail every week,
>or in whatever piece of new computer gear I buy. I promptly toss them in

>the trash where they belong.
>
> I'm saving mine, right now I have over 50 coasters for my drinks in
>different colors and designs.

Why throw them out? Maybe the CD's but not the disks. I have all my
friends save them for me, and I have an endless supply of free HD 3.5"
disks. A few seconds to formate them and thanks AOL for the free disk!

I thought everyone did this....

de KD1JV

From owner-qrp-l@Lehigh.EDU Sat Jan 11 18:02:26 1997
From: Thomas Isgro <kc8dgu@postoffice.worldnet.att.net>
Subject: [8560] Re: Email providers, Smoke demons, etc.
Message-ID: <32D7FCCE.5DA@postoffice.worldnet.att.net>

Steven Weber wrote:
>
> >>I get these "free" AOL and Compuserve disks in the mail every week,
> >or in whatever piece of new computer gear I buy. I promptly toss them in
>
> >the trash where they belong.
> >
> > I'm saving mine, right now I have over 50 coasters for my drinks in
> >different colors and designs.
>
> Why throw them out? Maybe the CD's but not the disks. I have all my
> friends save them for me, and I have an endless supply of free HD 3.5"
> disks. A few seconds to formate them and thanks AOL for the free disk!
>
> I thought everyone did this....
>
> de KD1JV

We Do!
I thought every body knew that's what they were for.

Tom

From owner-qrp-l@Lehigh.EDU Sat Jan 11 18:02:26 1997
From: wmcshan@REX.RE.uokhsc.edu (Mike McShan)
Subject: [8564] Re: Email providers, Smoke demons, etc.
Message-ID: <v01540b01aefdb276b913@[157.142.56.167]>

>Why throw them out? Maybe the CD's but not the disks. I have all my
>friends save them for me, and I have an endless supply of free HD 3.5"
>disks. A few seconds to formate them and thanks AOL for the free disk!
>
>I thought everyone did this....
>
>de KD1JV

A warning: These AOL diskettes are apparently not of highest quality (surprise) - I have had several fail (usually they have bad sectors). I now throw AOL diskettes in the trash; the data that I have to keep up with is worth the small price of a quality diskette.

72/73,
Mike N5JKY
Edmond, OK

From owner-qrp-l@Lehigh.EDU Sat Jan 11 18:02:26 1997
From: Sjolin@aol.com
Subject: [8572] Re: Email providers, Smoke demons, etc.
Message-ID: <970111170239_100949225@emout16.mail.aol.com>

In a message dated 97-01-11 13:44:50 EST, bmyers@destin.nfds.net (Bill Myers) writes:

<< >I get these "free" AOL and Compuserve disks in the mail every week, or in
>whatever piece of new computer gear I buy. I promptly toss them in the
>trash where they belong.

I'm saving mine, right now I have over 50 coasters for my drinks in different colors and designs.
>>

I read somewhere that AOL spends over $300 a year to acquire each new customer. So each customer has to stay a year before they start to show a profit. That hasnt been happening. One of the reasons that they went to the new pricing plan was that they were getting killed by other ISPs that were drawing users away.

Now the current mess is going to drive away their loyal users like myself and they will be left with nothing.

73 de Dave, N0IT

From owner-qrp-l@Lehigh.EDU Sat Jan 11 18:02:26 1997
From: gsurrency@juno.com (Gary L Surrency)
Subject: [8580] Re: Email providers, Smoke demons, etc.

Message-ID: <19970111.164504.14206.2.gsurrency@juno.com>

Yes, that is true. Or sort of. After a while you just get too darn many
of 'em!
73,

Gary Surrency AB7MY
S&S TAC-1(40&80m) and ARK30
QRP-L #571 Chandler, AZ (near Phoenix)Grid Square DM43BH

From owner-qrp-l@Lehigh.EDU Sat Jan 11 18:02:26 1997
From: Sjolin@aol.com
Subject: [8574] Re: EQUIPMENT ENCLOSURE
Message-ID: <970111171500_614531320@emout08.mail.aol.com>

In a message dated 97-01-11 16:33:51 EST, mgilger@concentric.net (Mark
Gilger) writes:

<< Can anyone suggest a good place to get equipment enclosures besides
Ten-Tec? >>

I dont like drilling holes and doing the other things required to come up
with own enclosure. Are any of the ones sold by Ten-Tec predrilled?

73 de Dave, N0IT

From owner-qrp-l@Lehigh.EDU Sat Jan 11 18:02:26 1997
From: Wa2eaw@aol.com
Subject: [8576] Re: EQUIPMENT ENCLOSURE
Message-ID: <970111180114_1142135165@emout07.mail.aol.com>

To all:
Nice metal enclosures can be had. I have a few bottles of Johnnie Walker
scotch
that have come in some nice metal enclosures. About 4"x4"x12". I buy the
scotch for the enclosures.
72/73
Bob (hic) WA2EAW

From owner-qrp-l@Lehigh.EDU Sat Jan 11 18:02:26 1997
From: NZ8J <timcook@erinet.com>

Subject: FS: HW-9

Super nice condition UNMODIFIED HW-9 with WARC bands. All original with manuals and schematics and power cord. Will ship in 48 for $285. Email for more info.

Tim
NZ8J

----------75F74086F93--

From owner-qrp-l@Lehigh.EDU Sat Jan 11 18:02:26 1997
From: jim hale <kj5tf@mctc.com>
Subject: [8558] Re: Half square shortened 30%
Message-ID: <32D81402.31A8@mctc.com>

w2gum@juno.com wrote:
>
> HI JIM,
>
> Your description of the shortened Half Square sure sounds interesting..
> My support masts for portable operation aren't tall enough to have the
> vertical parts ot the antenna clear the ground by very much. they are 22
> feet high. I understand that the flat top is 49 feet in length, but not

> sure of the placement of the loading coils in the vertical portions. I
> intend on using it for portable work when I have my 38s in operation next
> spring.

The coil goes between the two lengths of wire, the shortest wire is on the top - or closest to the horizontal wire... if still unclear I'll try to explain better :-)

> I am pretty sure the antenna is vertically polarized.and is an end fire
> array. How much gain over a dipole do you think it will provide ? I
> really enjoy working with antennas.

The gain is low angle a DX antenna - and its in the broadside dirrection.
>From Antennas West 1994, " gain over a horizontal dipole at the same height as the phaseing line for radiation at DX angles 15 degrees and lower is aprox 12 dB.

> Been a HAM for the past 63 years and still going strong. HI .

>
> Best of 73's and await your reply TONY GUM
> w2gum@juno.com

Hi Tony, the info I got was that by reducing by NO MORE than 30% there
was acceptable losses - as the length replaced by the coil isnt
radiating.
This antenna is my favorite cuz it only needs two trees, and has lots
more gain than a inverted vee.
If you want any other bands reduced let me know and I'll run the program
and get the data for you :-) size PVC can be 1.5" , 2" u choose
and let me know... 72/3's de Jim

From owner-qrp-l@Lehigh.EDU Sat Jan 11 18:02:26 1997
From: "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
Subject: [8571] Re: Half square shortened 30%
Message-ID: <Pine.SOL.3.94.970111164857.2102C-100000@utkux4.utcc.utk.edu>

On Sat, 11 Jan 1997, jim hale wrote:
> The gain is low angle a DX antenna - and its in the broadside dirrection.
> >From Antennas West 1994, " gain over a horizontal dipole at the same
> height as the phaseing line for radiation at DX angles 15 degrees and
> lower is aprox 12 dB.
Unfortunately, the figure for the gain of a half square at 15 degrees over
a dipole set at the same height as the phasing wire of the half square is
quite incorrect. Dipoles up at 35 to 45 feet have almost as much gain at
15-20 degrees as the half square. The advantage of the half square (and
such antennas as the right angle delta) lies in the part of the dipole
pattern that is not present: that portion higher than about 25 degrees,
where the dipole has much more gain than the half square. That means the
half square is a natural filter for diminishing signals and noise arriving
from high angles, thus reducing QRM and QRN and improving the
signal-to-noise ratio of low-angle DX signals. That is enough of an
advantage for any antenna.

-73-

LB, W4RNL

From owner-qrp-l@Lehigh.EDU Sat Jan 11 18:02:26 1997
From: "Paul Christensen" <paulc@ccse.net>

Subject: [8510] Re: Historic Callsign
Message-ID: <19970111053133.AAA1287@paulc.paulc>

Thanks for the reply Ray. Yes, my call did indeed belong to Bill Halligan for many years. However, much to the dismay of many OT, the call has two predecessors prior to being issued to Bill. I can accurately trace the call's roots back to one George L. Winberg of Chicago, Illinois. My 1921 Callbook shows him licensed for 250 watts of spark power. Around 1930 the call was picked up by John E. Brennan of St. Louis, Missouri. Then, I believe it was 1946 when the FCC revised several call districts and created the new "zero" call district West of the 'ole Mississippi River. Prior to 1946, all current tenth district calls west of the 'Ole Miss' were issued in the ninth call district. For instance, Art Collins was W9CXX before he became W0CXX. His *original* call is still available. Brennan then became W0AC as it is still listed today. However, his call is now expired and I suspect he has become a SK as he would be 97 years old. Bill more than likely picked up W9AC in the late '40s or very early '50s. Upon his move to Miami, he let his license lapse and he too became a SK in 1992 or 1993.

73,

-Paul, W9AC

> From: William R. Colbert <v31xe@dzn.com>
> To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
> Subject: Historic Callsign
> Date: Friday, January 10, 1997 9:30 PM
>
> Just read the post by Paul Christensen, W9AC. Interesting. But
> what was most interesting was Paul's call. W9AC used to be
> synonamous with HAM RADIO - was for many, many years the call
> of Bill Halligan, Hallicrafters Radio Co. until he moved to
> Florida several years ago. Nice to see the call back in use again.
>
> ob QRP: Bob WO3B sure had a nice signal out here in Far West Texas
> last nite. Thought I had missed him at 0330 until heard his
> cq fox. Thanks Bob.
> Ray....
>
> --
> 72/73, Ray Colbert, W5XE, SOWP 1064M
> (also af852@rgfn.epcc.edu)
> El Paso, Texas
>
>
>

From owner-qrp-l@Lehigh.EDU Sat Jan 11 18:02:26 1997
From: "Bob Tellefsen-CNSE97" <Bob_Tellefsen-CNSE97@email.mot.com>
Subject: [8563] RE:LDG tuner questions
Message-ID: <M1230499.001.v4030.1.970111210714Z.CC-MAIL*/OU=LMPCC10/OU=ILBE/PRMD=MOT/ADMD=MOT/C=US/@MHS>

Guy:
I recently finished my LDG QRP tuner and it's workibng fine. I'll try to cover each of your questions.

1A Count turns just as the instructions say. Everytime a wire passes through the core, call it a turn, even if in your own mind you might want to think of it as a half turn.
1B If in doubt, go with the text rather than the illustrations. The last turn is just one more wire pass through the core. If it says 10 turn, you should see 10 wires side by side inside the core, no more, no less.
1C Assume the tabular values are critical. That way you won't go wrong. Most of us have "interpreted" instructions over the years, and usually get ourselves in hot water. "Interpretation" is fine, after you have the device working, and are looking to tweak it. Don't let your "interpretations" get in the way of making the box work the first time.

2 BIFILAR winding in these instructions means twisted together. Another use of the term, as in winding baluns, uses it to mean the two wires laying close together as a parallel pair of wires. Again, here the meaning is twisted together. I did it the wrong way, and had to redo the toroid with twisted windings and it worked fine then.

3 I have tried increasing the coupling between the input lead and the sensor toroid, and frankly I can't see any improvement. The real performance of the tuner is set in the microprocessor algorthms, and small changes in coupling don't seem to have any effect that I could see.

Hope this helps, Guy. It really is a slick little tuner.

72, Bob N6WG

From owner-qrp-l@Lehigh.EDU Sat Jan 11 18:02:26 1997
From: "Steve Hurst" <shurst@magiclink.com>
Subject: [8513] Re: ND
Message-ID: <199701110555.AAA30235@nss2.CC.Lehigh.EDU>

> > But I shouldn't say anything.....might make people want to move there
> and ruin it all......(That's what's happened to Idaho and Nevada!)
>
> cul,
>
> 73, Ron,
>
> KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
> ku7y@sage.dri.edu..........Washoe Lake, Nevada....
> QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....
>

Ron,

Is Idaho runined ? What part of Idaho have you been too? For us who have to work for a living , I happen to like the growth that has taken place over the past 15 years here in Idaho. (Not that I'm dependent on the local growth for my standard of living, I'm a darn Cali for nee un !) Idaho is still a beautiful place , we love it !!!!!

.......must be those darn Californians, who do they think they are coming here to nowhere and raising our standard of living, spending their money, creating jobs other than milking cows and "swathing hay" (I'm not too sure about this :-) hehehe), improving our states economy , AND making us pave our "restraurant" parking lots ! Why those darn Cali for nee uns, we ort to run um all outta town ona rail !!!......But lets just keep their money , hehehehehe.....

Yeah, I've heard it all before.....
They blame it all on the Californians or any outsiders for that matter !!!!!

73, or whatever
Steve
KA7NOC

From owner-qrp-l@Lehigh.EDU Sat Jan 11 18:02:26 1997
From: Steve /N0TU <N0TU@webaccess.net>
Subject: [8535] RE:ND My Great-Great Gannpa started Town.....
Message-ID: <32D7C514.816@webaccess.net>

My great-great grand Dad started a town in the south eastern corner of

North Dakota named Galchutt(my last name). I've often thought it would
be fun to visit there again...Maybe a QRPxpedition? Seems there's alot
of people needing ND. But not this winter too many other plans in the
works.....Steve
--
portable/solar powered QRP QRP-L # 911
49er/HW8/ExplorerII/Zepp in attic @ CO SPGS,CO ARS # 206
_____________________________ _ _ ____ _ ___ _ _ _ __ __ __
_____________________________C_U L____D_E___N_0_T_U__.__.__

From owner-qrp-l@Lehigh.EDU Sat Jan 11 18:02:26 1997
From: "Dean T. Miller" <dtmiller@dsmnet.com>
Subject: [8515] Re: ND QRP
Message-ID: <9701110643.AA11060@dsm7.dsmnet.com>

At 03:45 PM 1/10/97 -0600, Kent R. Olson wrote:
>To all sceptics out there:
>
>Yes, there is a place called North Dakota!
>So...enough ND bashing and jokes. We all live
>in states which bears the brunt of some jokes.

All except Iowa, of course.<g>

>North Dakota is one that
>most people would never live in less visit- I travel for a living and
>there are a lot of "popular" places out there that you couldn't pay me
>enough to live in. '-)

THAT'S FER SHER !!!

>from "FARGO, NORTH DAKOTA"

I've actually been there a few times.<g>

Thanks for the message and offer.

Dean -- putting the duh in Duh Moines (KB0ZDF)

From owner-qrp-l@Lehigh.EDU Sat Jan 11 18:02:26 1997
From: k5zty@juno.com (WILLIAM A STIETENROTH)
Subject: [8502] Re: NORTH DAKOTA EXPEDITION
Message-ID: <19970111.023117.5223.1.k5zty@juno.com>

Go for it Jim!! Your always good for a mult on at least 2 bands for me in a contest. You could be everybodys hero form ND. Do like the big dxpeditioners do, solicit contributions to the expedition. $5. x 500 W.A.S/ QRP hunters would pay for the gas.
72,
Bill, K5ZTY

WITHOUT CW, IT'S JUST CB
ARCI 8817, CQC 178, NOR-CAL 1321, MI 1472, NE 440
QRP-L 473

From owner-qrp-l@Lehigh.EDU Sat Jan 11 18:02:26 1997
From: Bob Hightower <ki7mn@dancris.com>
Subject: [8503] Re: Only States left are KANSAS & WEST VIRGINIA
Message-ID: <199701110310.UAA07846@dancris.com>

At 06:06 PM 1/10/97 -0500, you wrote:
>Thats it. Just WV and KS are needed to have all 50 states on the
>
>FSFD Winter schedule. Similar to the ND situation, we have NS8O and KC4O
>
>offering to do road trips to WV, but zip for Kansas. So start up those
>
>West Virginia and Toto jokes, leave ND alone before Kent changes his mind,
>
>and keep Roy and Greg from sending me per diem charges.
>

All Riiiight!
73,
Bob, KI7MN Chandler, AZ ScQRPion QRP-L #271, NorCal #1228, CQC #274, QRP ARCI #8918, AK QRP #30, not in any order of importance.

http://www.dancris.com/~ki7mn

From owner-qrp-l@Lehigh.EDU Sat Jan 11 18:02:26 1997
From: ka0yos@arn.net
Subject: [8507] Re: Only States left are KANSAS & WEST VIRGINIA
Message-ID: <199701110453.WAA27358@arnet.arn.net>

At 06:06 PM 1/10/97 -0500, Jim Hydzik wrote:
>Thats it. Just WV and KS are needed to have all 50 states on the

>
>FSFD Winter schedule. Similar to the ND situation, we have NS8O and KC4O
>
>offering to do road trips to WV, but zip for Kansas. So start up those
>
>West Virginia and Toto jokes, leave ND alone before Kent changes his mind,
>
>and keep Roy and Greg from sending me per diem charges.
>
>Thanks Guys, Jim K3QIO Delaware FSFD Winter Co-ordinator
>
What exactly is required? I may be able to talk my Dad (WA0EAF), or another
Ham I know in KS into this. My father's only QRP rig is a Backpacker II
often made useless by the big shortwave station in AL (front end overload).
I don't know if he has tried tuning his QRO rig down.

72,
Joe ka0yos

From owner-qrp-l@Lehigh.EDU Sat Jan 11 18:02:26 1997
From: "Dennis L. Edinger" <dedinger@ecentral.com>
Subject: [8562] RE: QLF/QHF
Message-ID: <32D80FEB.295A@ecentral.com>

While on active duty with Army Security Agency in the '60s I recall net
control operators trying to "herd" outstations in by using QLF/QHF to
let them know where they were regarding the net control frequency.

de Dennis/w0gd

From owner-qrp-l@Lehigh.EDU Sat Jan 11 18:02:26 1997
From: jeffa@ix.netcom.com (Jeff Anderson)
Subject: [8498] Re: REFLECTIONS, by Maxwell
Message-ID: <199701110149.RAA13219@dfw-ix2.ix.netcom.com>

You wrote:
>
>I bought the original copy when it first came out. There was no
>software, nor is there any mention of it in the book. Perhaps later
>verstions, but not the 1990 Hardcover.
>
>

I have the same edition, and there was no diskette in mine. However,
on the page before the Forward is an announcement that a Diskette is
available from the ARRL (price is not mentioned). Perhaps these
programs can be downloaded from the ARRL?

- Jeff, WA6AHL

From owner-qrp-l@Lehigh.EDU Sat Jan 11 18:02:26 1997
From: Ken Lopez <kjlopez@earthlink.net>
Subject: [8552] Re: REFLECTIONS, by Maxwell
Message-ID: <32D7DD85.3F7D@earthlink.net>

Jeff Anderson wrote:
>
> You wrote:
> >
> >I bought the original copy when it first came out. There was no
> >software, nor is there any mention of it in the book. Perhaps later
> >verstions, but not the 1990 Hardcover.
> >
> >
>
> I have the same edition, and there was no diskette in mine. However,
> on the page before the Forward is an announcement that a Diskette is
> available from the ARRL (price is not mentioned). Perhaps these
> programs can be downloaded from the ARRL?
>
> - Jeff, WA6AHL
Well I'll be darned! I looked in mine, which is first printing, and
there it was. So, I wonder if the program diskette is still
available? I currently am using a MAC, but a PC is on the way. I
have a lot of other ARRL PC software to use as well. I am interested
if you find anything out.

On a related topic, what is available out there for the MAC that might
be of interest to us radio types?

Cheers, es 73,
Ken, N6TZV

From owner-qrp-l@Lehigh.EDU Sat Jan 11 18:02:26 1997
From: wmcshan@REX.RE.uokhsc.edu (Mike McShan)

Subject: [8561] Re: REFLECTIONS, by Maxwell
Message-ID: <v01540b00aefdb19884d1@[157.142.56.167]>

(snip)
>On a related topic, what is available out there for the MAC that might
>be of interest to us radio types?
>
>Cheers, es 73,
>Ken, N6TZV

Check out :

http://www.mv.com/ipusers/wd1v/

Lots of Mac ham-related links.

72/73,
Mike N5JKY
Edmond, OK

From owner-qrp-l@Lehigh.EDU Sat Jan 11 18:02:26 1997
From: Cecil A Moore <Cecil_A_Moore@ccm.ch.intel.com>
Subject: [8554] Re: Reflections, The book

>From: "Joseph L. Hartmann, Jr." <joeh@sugar-river.net>
>Walter Maxwell apparently is not an active ham. Does anyone know his
>telephone number, email or snail mail address?

Hi Joe, it's going to come as a surprise to W2DU that he is not an
active ham. :-)

73, Cecil, W6RCA, OOTC

From owner-qrp-l@Lehigh.EDU Sat Jan 11 18:02:26 1997
From: "Joseph L. Hartmann, Jr." <joeh@sugar-river.net>
Subject: [8567] Re: Reflections, The book
Message-ID: <Pine.BSD/.3.91.970111164321.26370G-100000@arakis.sugar-river.net>

Thank God for my humble "apparently". People talked about Walter
Maxwell. Could dig it: Have a son named "Walter" and is there
a ham alive who has not heard of James Clerk Maxwell.

Go to the FCC official list of calls: search for Maxwell,
Walter -- result: no record.

Walter is off the air!! Very surprising considering his
writing style -- thought for sure he would *always* be a ham.

Should have learned my lesson when I searched for myself and
found I was no longer on the list: hartmann, joseph -- no
record. Yet here I am, and on my wall, there it is K2AJV.
After a sleepness night, got the bright idea to *search* for
K2AJV. THERE I AM: HARTMANN JR, JOSEPH.

Oppps. Sorry pop! Won't happen again.

Till Walter Maxwell. Till M Walter Maxwell.

sic transit gloria mundi.

Best Regards,

Joe Hartmann Tel: (603) 863 6073
K2AJV -issued email: joeh@sugar-river.net
 1951 home-page: http://www.sugar-river.net/~joeh

First Student at the:

 Linux Academy in the Sunshine Town of Newport, NH

Thanks to RMS, Linus, and other contributors of free software!
------------ I grant this to the public domain ------------

On Sat, 11 Jan 1997, Cecil A Moore wrote:

> >From: "Joseph L. Hartmann, Jr." <joeh@sugar-river.net>
> >Walter Maxwell apparently is not an active ham. Does anyone know his
> >telephone number, email or snail mail address?
>
> Hi Joe, it's going to come as a surprise to W2DU that he is not an
> active ham. :-)
>
> 73, Cecil, W6RCA, OOTC
>
>

From owner-qrp-l@Lehigh.EDU Sat Jan 11 18:02:26 1997

From: rhight@primenet.com (Roger Hightower)
Subject: [8579] Re: Reflections, The book
Message-ID: <199701112347.QAA22209@primenet.com>

At 04:50 PM 1/11/97 -0500, Joseph L. Hartmann, Jr. wrote:
(snip)
>Go to the FCC official list of calls: search for Maxwell,
>Walter -- result: no record.
>
Try looking for M. Walter Maxwell. That's how his book shows it.

72/73 de Roger N7KT Mesa, AZ Grid DM43cj
NorCal 40-9er, NC-40A, OHR Explorer 20, 30M, OHR400, HW-8, HW-9 and more to
come.
NorCal 1099 CoQRP 176 QRP-L 62 G-QRP 9081 ARCI 8946 NE-QRP 383

From owner-qrp-l@Lehigh.EDU Sat Jan 11 18:02:26 1997
From: chas@nmaa.org (Charles Kadesch)
Subject: [8551] Re: Smoke demons, etc
Message-ID: <32D81B51.347D@nmaa.org>

Contrary to popular belief, QRP rigs do not run on
electricity. They run on pre-installed smoke.
Electricity is what keeps the smoke in. If the smoke
gets out, then the QRP rig needs repair. Replacing
the smoked part with a new one with pre-installed smoke
-or, if one knows how, reinstalling the smoke into the
part is normally all that is required to return the QRP
rig to service.
-72 and have a Happy 1997-
Chas W3KC

From owner-qrp-l@Lehigh.EDU Sat Jan 11 18:02:26 1997
From: ka0yos@arn.net
Subject: [8508] Re: South Dakota / Kansas
Message-ID: <199701110453.WAA27361@arnet.arn.net>

At 12:13 PM 1/10/97 -0800, Mike Boice wrote:
>>There ain't nuttin' there, honey. I spent a glorious week there on the

>>"Dances With Wolves" set and I've never seen such an expanse of bleak.
>>Perhaps it gets better as you get to the Black Hills
>
>As Ron KU7Y said, "that's what makes it so nice." Being born and raised in
>God's Country (spelled Black Hills to the heathen), I feel compelled to jump
>into this lighthearted discussion and stand up for my homeland :-) While in
>the Navy, I used to get comments like this all the time. I would simply
>respond with something to the effect of, "I'm glad you don't like it. That
>means I'll never have to see you there."
>
Kansas has laws that forbid showing all the really interesting and cool
stuff to outsiders! :-)

72,
Joe ka0yos (I know about the good stuff!)

From owner-qrp-l@Lehigh.EDU Sat Jan 11 18:02:26 1997
From: "Joseph L. Hartmann, Jr." <joeh@sugar-river.net>
Subject: [8506] Re: USENET ? What is it?
Message-ID: <Pine.BSD/.3.91.970110234056.17986C-100000@arakis.sugar-river.net>

Hello Pablo,

What you want to try to do is get hooked up with an ISP who will give you
a shell account. You need an ISP within your local calling area or the
phone co. charges will be about $6.00/hour.

My ISP charges $20/month for unlimited time hooked up to his machine.

On Fri, 10 Jan 1997, pablo wrote:

> Hi Gang:
>
> I've read a lot of times about USENET Newsgroups... I would like
> to know a bit more about this,at least for me, unknown aspect of the
> Net.

The ISP who provides you with a shell account will have some
type of newsreader on his/her machine. He should be able to
tell you how to use it. If all you have is email, there are
still ways to get the news sent to you via email. I don't know
what they are, since I have the shell account, hence full

internet access, but I think some more specific questions to
this list should bring some help.

Hmmmmm -- this is an interesting problem -- because a lot of
your questions could best be answered by posting to the
appropriate USENET group! It's the chicken and the egg thing.

> Ok I know what you are thinking why does this guy doen't search
> over the WWW to satisfy his curiosity? Just because I only have access
> to a text only terminal on my Unix account.

Ahhhhhh I should have read your entire post before jumping the
gun! You *do* have a shell account!

You say "only" as if apologizing for it: I use text only by
CHOICE -- can't stand to waste my time for all useless graphics
-- although I will modify my stand when I find decent
schematics coming along.

Anyway, you have a shell account. You can use the newsreaders:
trn, rtin, -- gosh there must be a bunch of them. Ask your ISP
what he/she uses to read *his/her* news! Go to your local
library and see if they have any books on the Internet that you
can borrow -- or ask them to get you one: just look up the
library's "Books In Print" (Subject volumes) under "Internet"
and fill out the interlibrary loan request.

I did what my ISP told me -- that got me started, then I found
out about slrn, which I use now and am quite happy with its
speed and usefulness. You can also do a "man trn" or a "man
rtin" or a "man tin" or a "man slrn" to see if there are any
docs on your system that talk about the newsreaders.

Have you gotten to the point of installing any software on your
ISP's machine? This is a very nice ability to have. I found
about slrn and installed it on my ISP's machine: it works great.

Incidentally, you can get very good web access (but not to
graphics, which are *mostly* a waste of time anyway, using
"lynx" the text-only web browser. Try typing "lynx" to your
shell command prompt and see what happens. If lynx comes up, type
? and you will get the help that tells you how lynx works.

If you want a thumbnail sketch of how to run lynx, email me. I
have a brief thing written up.

Let me know if you need any specific help. I will try to help.

Best Regards,

Joe Hartmann Tel: (603) 863 6073
K2AJV -issued email: joeh@sugar-river.net
 1951 home-page: http://www.sugar-river.net/~joeh

First Student at the:

 Linux Academy in the Sunshine Town of Newport, NH

Thanks to RMS, Linus, and other contributors of free software!
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> So, I would be very grateful
> if any of you can offer me some help over the subject. Thanks in advance
> and excuse me for the non-QRP posting. BTW just received my copy of
> The QRP Quarterly, just in time. GOOD job guys!
>
> 72 es Gl
> Pablo
> WP4JXD
>
>

From owner-qrp-l@Lehigh.EDU Sat Jan 11 18:02:26 1997
From: "Claton Cadmus" <aplitech@Spacestar.Net>
Subject: [8491] Re: UTC the easy way
Message-ID: <199701110019.SAA07171@Spacestar.Net>

Mel Evans <101366.3072@compuserve.com> wrote:

> Visit local glitter 'n gift store. Look for JUMBO LCD car/auto clocks
or
> similar. Self adhesive backing. About 1" x 2.25". Buy one for each time
> zone. About 1.99 ukp each. Mount on board, use dry transfer letters to
> label "UTC", "PST", "Local" as needed.

This would be great if we could get these in 24hr format here in the
states. Anybody know if and where we can?

73 de KA0GKC Claton Cadmus
Ph. (612)926-8886 Fax (612)926-8545
E-mail cla@spacestar.net

TCP/IP ka0gkc@ka0gkc.ampr.org
Packet ka0gkc@wb0gdb.#stp.mn.us
ARRL, QRP-ARCI, NorCal, ARCC, MNQRP Society

From owner-qrp-l@Lehigh.EDU Sat Jan 11 18:02:26 1997
From: "Paul R. Valko" <prvalko@oakland.edu>
Subject: [8500] Re: UTC the easy way
Message-ID: <Pine.OSF.3.95.970110205122.321E-100000@vela.acs.oakland.edu>

On Fri, 10 Jan 1997, Claton Cadmus wrote:

> This would be great if we could get these in 24hr format here in the
> states. Anybody know if and where we can?

One of my very first posts to QRP-L some three years ago was a story about how I converted a digital clock I received as a "groomsman gift" from my brother-in-law, to a 24 hour clock. I still use it to this day.

I fully believe vitually all those cheap little LCD clocks have a solder pad (like the one I modified) to convert the display to 24 hour time.

Ya'll are hams, get in there and peek around. :-)

73 =paul= W8KC

From owner-qrp-l@Lehigh.EDU Sat Jan 11 18:02:26 1997
From: "Claton Cadmus" <aplitech@Spacestar.Net>
Subject: [8521] Re: UTC the easy way
Message-ID: <199701111419.IAA02606@Spacestar.Net>

There have been several messages to me about modifying cheap clocks for 24 hr time. I have attempted this in the past on about 3 or 4 different clocks. All required simply a single pin either grounded or set to V+. However in every case I was disappointed to find that the display was missing the necessary LED's to form the 2 in 20:00. So my question is:

Has anyone found clocks recently that they have successfully converted? And if so where and want brand?

I think many on this list would be interested.

73 de KA0GKC Claton Cadmus
Ph. (612)926-8886 Fax (612)926-8545
E-mail cla@spacestar.net
TCP/IP ka0gkc@ka0gkc.ampr.org
Packet ka0gkc@wb0gdb.#stp.mn.us
ARRL, QRP-ARCI, NorCal, ARCC, MNQRP Society

From owner-qrp-l@Lehigh.EDU Sat Jan 11 18:02:26 1997
From: Dan Keen <70731.722@CompuServe.COM>
Subject: [8529] Re: UTC the easy way
Message-ID: <970111154834_70731.722_EHM32-1@CompuServe.COM>

On this subject of UTC: The popular Campmor mailorder catalogues sell a 29.99 Timex Expedition wristwatch whose second timezone feature also includes a second date associated with the secondary timezone.

Whenever any time is displayed on the watch screen, the primary or the secondary, the correct date is always there above it at the same time.

The Casio watch I used to have had two timezones but the only date displayed was the one associated with the primary timezone.

The cheap little Timex is Campmor number 63726-Q.

Dan